

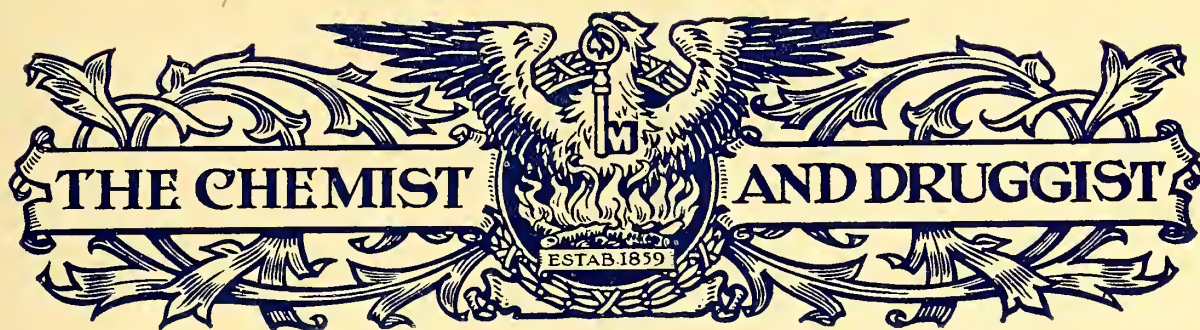


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THE CHEMIST AND DRUGGIST, AUGUST 8, 1931



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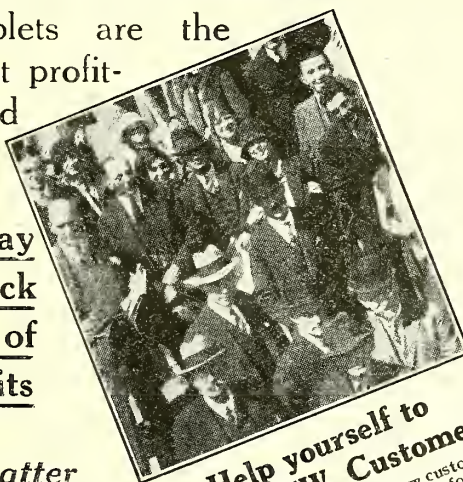


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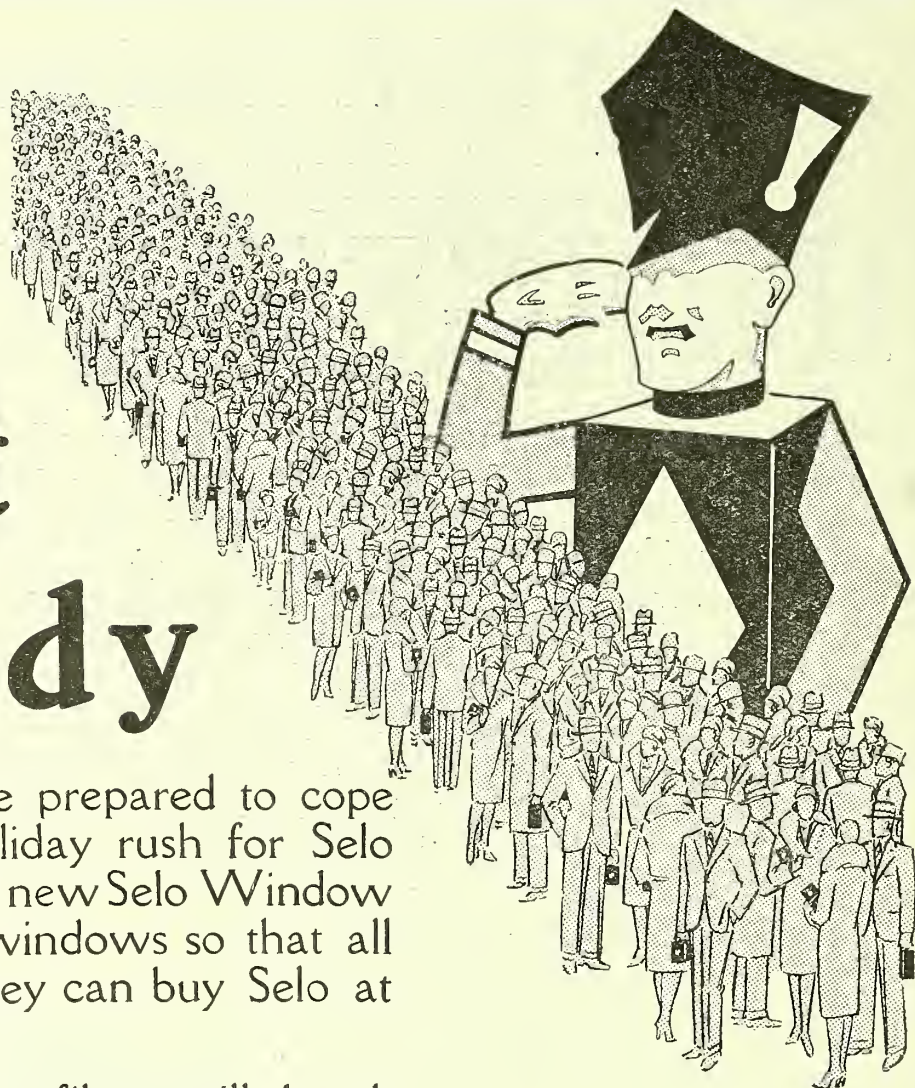
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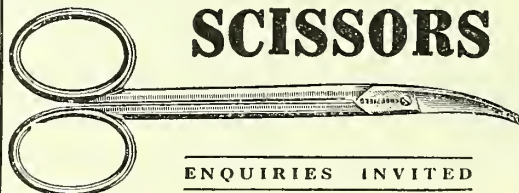


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UNITY WORKS, LATIMER ROAD, LONDON, E.7

Telephone: Maryland 4636



**SCISSORS**

ENQUIRIES INVITED

**GILL, HERBERT & CO., Ltd.**

CUTLERY MANUFACTURERS,  
Wheeldon Street, SHEFFIELD





**Cool and Refreshing  
Fragrant and Invigorating**  
as the air from snow-capped mountains



Modernistic presentation and rendering hitherto associated only with the highest priced article, now used by Ayrtons for a packed speciality retailing at the popular prices of 7½d. and 1/-.

Iced Eau de Cologne  
Iced Lavender Water  
Heather Bloom

**Uniform Price :**

Retail - - - 7½d. and 1/-

Trade - per doz. 4/6 and 7/6

Sprinkler bottle with gilt dome cap. Half-dozen in counter box.

**THE "H.F." SERIES**

of outstanding Toilets.

Cellophane wrapped, sprinkler neck bottle, Gilt canopy caps and brilliant showcards.

**Uniform Prices**

	per doz.	6 doz.
1 oz.	- 4/-	- 3/9
2 oz.	- 6/-	- 5/9
4 oz.	- 8/-	- 7/9

**"H.F." BRILLIANTINE**

**"H.F." BAY-LEAF BRILLIANTINE**

**"H.F." TOILET PARAFFIN**

**"H.F." VIOLET OIL**

Sample Display Outers post free at these rates.

**AYRTON, SAUNDERS & CO. Ltd.**  
**LIVERPOOL, England**



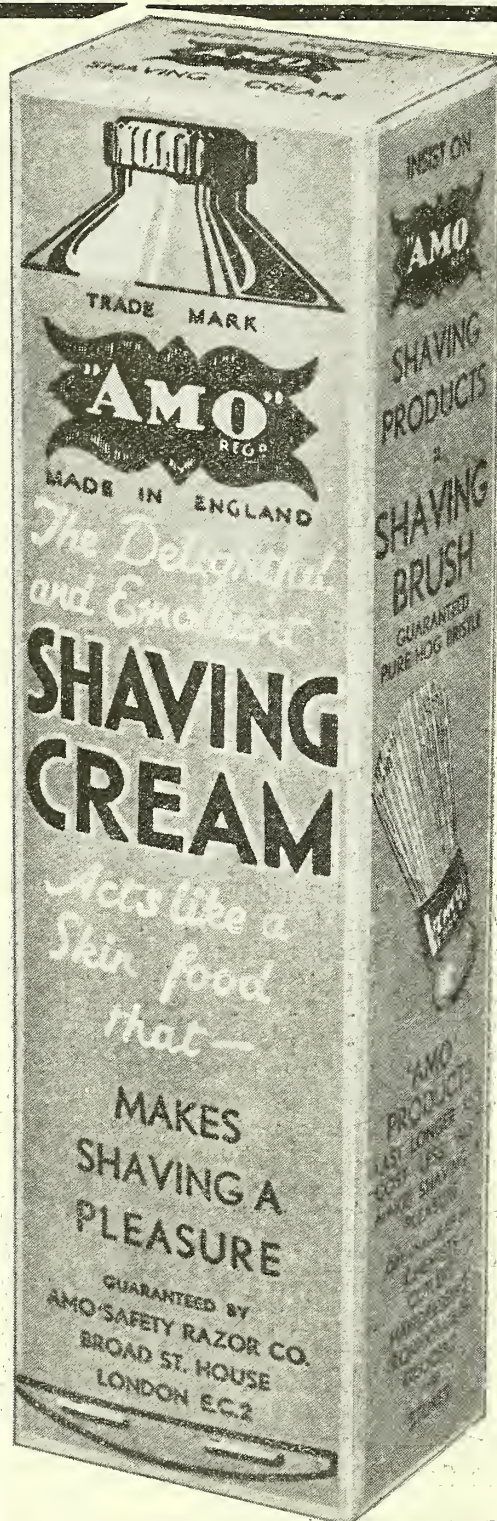


ILLUSTRATION IS ACTUAL SIZE

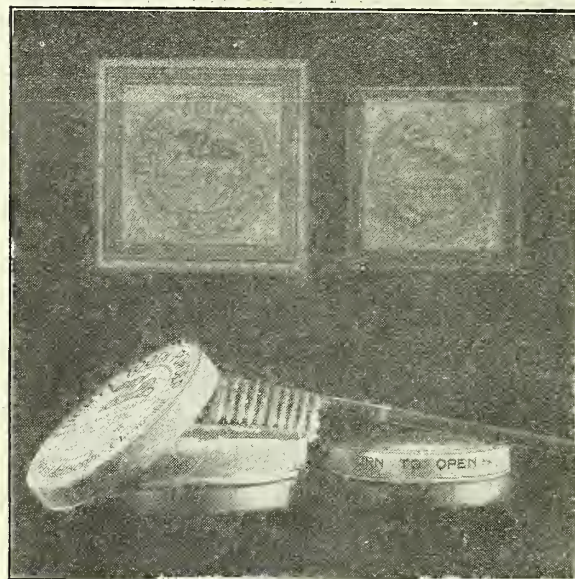
WRITE FOR

**SPECIAL BONUS TERMS**

AMO SAFETY RAZOR BLADE CO., LTD.  
BROAD STREET HOUSE - - LONDON, E.C.2



**Eucryl**



### **Eucryl for you** *The Dentifrice that leads to Larger Profits*

Ensure for yourself the benefit of the generous terms that the Makers offer by keeping a plentiful stock of all Eucryl Products—Products that have been in continuous demand for over 30 years

*Buy on Window display Terms and 30 days' credit and get—*

**PROFIT ON SELLING PRICE 43%**

**PROFIT ON BUYING PRICE 75%**

*Buy on Window Display Terms and send Cash with Order and get—*

**PROFIT ON SELLING PRICE 46.6%**

**PROFIT ON BUYING PRICE 87.5%**

## **EUCRYL DENTIFRICES**

*Send coupon below for illustrated price list and details  
of Eucryl Bonus Terms and ask for new Window  
Display Material*

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

C.D.T.

EUCRYL LIMITED, SOUTHAMPTON.



BRITISH MADE

# ROLL FILM MACHINES



Two Column for  
2 Different Makes  
of Film

TO FIT ANY MAKE  
OF FILM

Price £7 10 0

H.P. TERMS on APPLICATION

We can also supply  
SINGLE COLUMN  
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MANY SUCCESSES IN THE EXAMINATIONS

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## QUALIFY IN OPTICS

**PRACTICAL WORK.** Personal tuition in the practical work is a distinctive feature. Students can avail themselves of the practical classes held during examination times when they are in London.

Expert Tuition for the **SIGHT-TESTING DIPLOMAS** of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.).

Write for full particulars—

**G. A. SCURR, M.P.S. F.S.M.C. F.B.O.A. F.N.A.O. B.Sc. F.I.O. F.C.O.**  
50 HIGH STREET, BARNET, LONDON, N.

## LONDON COLLEGE OF PHARMACY

(Founded by H. Wootton, B.Sc.) C. W. Gosling, Ph.C.  
Principal: IRVINE G. RANKIN, B.Sc., Ph.C.

**SPECIALISTS IN TRAINING PHARMACISTS.**

**SUMMER REVISION COURSES** have just commenced.

PRELIM. SCIENTIFIC.  
C. & D. QUALIFYING.

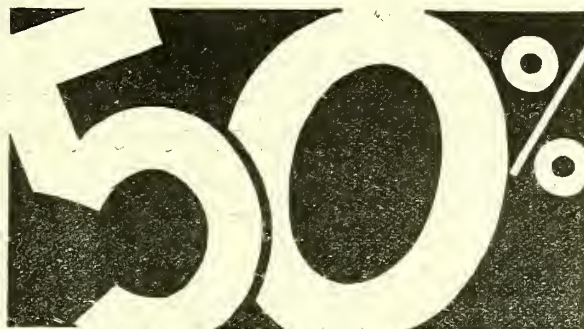
DAY, EVENING and REVISION.

1 or 2 or 3 days a week **PART TIME.**

**NEXT SESSION** commences **OCT. 7th**

Benches in our Laboratories now being reserved.

Apply—The Principal, 361 Clapham Road, S.W.9



## PROTECTED PROFIT!!!



The **ELASTRONG DE LUXE** is the Chemists' Hot Water Bottle. It is price protected, eliminating price cutting and the competition of the large Stores and multiple shops—and it carries a profit of 50% on your purchase price.

Made of the highest quality rubber . . . . . delightfully simple and modernistic in design . . . . . five beautiful, bright colours to satisfy the most exacting taste . . . . . displayed in a unique and most attractive form . . . . . Elastrong De Luxe Bottles are the result of more than a quarter of a century's experience—a fine product of the Rubber Technologist's art.

3-quart (nominal) size - - Retail Price **4/6** each  
Trade „ **3/-** „

### YOUR SECOND LINE OF CHEAPER BOTTLES

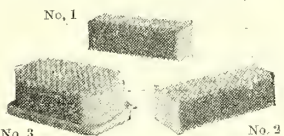


To meet the demand for a good bottle at a low price and to beat foreign competition, the **EVER-LASTIC** is your line. Seamless moulded. Wide neck. In 5 colours. In two sizes. Retail price uncontrolled.

Trade Prices —  
3-quart - **2/2** each  
2-quart - **2/-** each

### THESE BRUSHES SELL ON SIGHT

St. Helens (Patent) Pure **CREPE RUBBER NAIL BRUSHES** clean the hands rapidly and perfectly. They are a new beauty treatment. In 3 sizes. Retail prices, Type No. 1, **1/-** ca. No. 2, **1/6** each - No. 3, **2/-** each. Trade discount, **33 1/3%** (Minimum 2 dozen lots)



# ST. HELENS

## PRODUCTS OF QUALITY

ST. HELENS CABLE  
AND RUBBER CO. LTD.  
SLOUGH

Tear out this advertisement, attach to it your trade label, and send to us for full details of these profitable lines.





**IONONE**  
**100%**

White, Tomkins & Courage Ltd.

**REIGATE**



OF IMMENSE INTEREST  
TO RETAILERS!

**EAU DIXOR**  
*Liquid Hair Remover*

is now being marketed  
in a new  
1/- size

An extensive advertising campaign is starting immediately in newspapers and magazines. The Daily Mirror, Daily Sketch, Home Chat, etc.

**Stock now.**

**Don't disappoint your customers**

1/- size 8/- per doz.

3/6 » 27/- » »

Sole British Agents:

DEBACQ & HARROP

68 Newman Street, Oxford Street, London W. 1.

*If its  
Customers  
you want*

YOU SHOULD STOCK

**PETAL DUST**  
"Wherein the subtle savour of the Flowers  
sublimely dwells."

**THE GREAT FLORAL AIR PURIFIER**

**A TRIAL WILL CONVINCE YOU THAT—**

**PETAL DUST**, when once shown, creates its own demand, and is therefore a valuable adjunct to every "go-ahead" store.

**PETAL DUST**, when displayed prominently upon your counter, will attract prudent customers by the fragrance of its unique odour, which to-day is of such universal admiration.

**RETAILS IN PACKETS AT 4d. AND 8d. EACH.**

Attractive Advertising matter free on request.

Obtainable through all the usual Wholesale Houses or from  
Sole Producers i—

**THE ROSMARINE MANUFACTURING CO.**  
LONDON, S.E.1



The original combined Cream and Powder

la **VELOUTY**

de **DIXOR** Paris



*The advertised line that you are asked for.*

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES:—No. 1. Handbag tube 3/- doz. Retail -/4½  
 No. 2. Small tube - 4/- " " -/6  
 No. 3. Medium tube 7/- " " 1/-  
 No. 4. Large tube - 14/- " " 2/-  
 No. 5. Super tube - 22/- " " 3/-  
 Pots - - 21/- " " 2/9

Made in four shades:

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Sole British Agents:

**DEBACQ & HARROP,**

68 Newman Street, Oxford Street, London, W.1.

*Sole Distributors for*

Northern Ireland: ROBERT MAYRS & CO., 43 Chichester Street, BELFAST  
 Irish Free State: MAY, ROBERTS & CO. LTD., Grand Canal Quay, DUBLIN



There is less shyness now about hair-tinting ... and less secrecy. But customers look to the responsible chemist for reassurance in respect of safety.

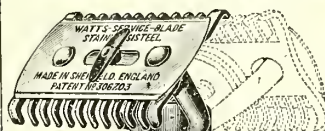
## SAFETY FIRST!

Tell your hesitant customers about Nuctone ... of its **safety**. Give the other facts, of course: that Nuctone is antiseptic and a fine tonic ... But stress the all-important point of **SAFETY**.

**Nuctone**  
**SAFE FOR GREY HAIR**

Order from your usual Wholesaler.

## THE NEW WATTS-SERVICE SAFETY RAZOR



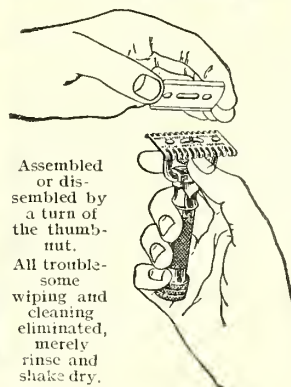
Holder and  
 Two Blades  
 in box

5/-

Super Sets from  
 12/6 to 42/-

The last word in  
**SAFETY**  
 RAZORS  
 with  
 Stainless  
 Steel  
 Blade &  
 Holder

Automati-  
 cally fixed  
 positive  
 shaving  
 angle for  
 each edge  
 Only two  
 parts.  
 Rustless in  
 any climate



MANUFACTURED BY  
**JOHN WATTS** (Sheffield and London) LTD.  
 Lambert Works, Sheffield, England.

London Office and Showroom: 18 Soho Square, W.1



## ANTISEPTIC CREAM FOR THE SKIN AND COMPLEXION

Invaluable during the Summer months for Soothing and Protecting the Skin, rendering it soft and supple. Useful either as a Day or Night Cream.

1-oz. 8/6 per doz.

2-oz. 15/- per doz.

4-oz. 25/- per doz.

CHEMIST'S OWN NAME AND ADDRESS PRINTED FREE ON 3 DOZEN.

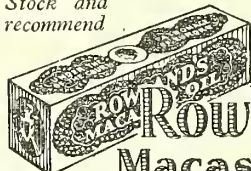
MANUFACTURED BY

C. J. HEWLETT & SON, LTD., 35/42 Charlotte St., London, E.C.2

### Selling Suggestions

Rowland's Macassar Oil nourishes and revitalises the roots of greying, thinning hair and soon restores it to youthful colour and growth.

Stock and  
recommend



J. H. & Co.

Of all Wholesalers  
to retail at 2/6,  
7/- and 10/6.

**Rowland's  
Macassar Oil**

A. ROWLAND & SONS, Ltd., 22 Laystall St.,  
Rosebery Avenue, London, E.C.1

**THE "STATIC" TOOTH BRUSH**

BONE HANDLES  
WHITE,  
UNBLEACHED,  
OR BLACK  
BRISTLES

Names free on  
6 doz. lots.  
**6/6 per doz**  
From all wholesalers

MANUFACTURERS:  
**W. R. SPEER & SON, 215 Dalston Lane, E.8**  
EST. 100 YEARS.

**NEW! THE MYATT DAYMARK RAZOR**

made for the  
Million Users of  
**MYATT  
DAYMARK  
BLADES**

From all  
Wholesalers.

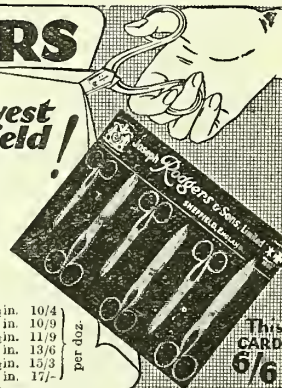
Sole Manufacturers  
**W. J. Myatt & Co. Ltd.**  
BIRMINGHAM

**2/6 RETAIL  
RETAIL  
DISCOUNT  
25%**

### RODGERS QUALITY —and the lowest price in Sheffield!

Rodgers Scissors have always sold on quality, now they sell on price as well. The card illustrated costs you 6/6 and the scissors sell at prices ranging from 1/4 to 2/2, showing you a net profit of 5/3 per card. Buy British and help to reduce unemployment and taxation.

Order Card No. E. 7174/C.D.,  
and see how the scissors sell  
themselves.  
**Joseph Rodgers & Sons, Ltd.**  
Cutlery to His Majesty,  
SHEFFIELD.



**OVER 53%!!** This Profit on your outlay is guaranteed to you by  
**The FLEET Blade**



A Sheffield  
Product from the  
Molten Steel to the  
Finished Blade.

Retails at 3 for 7½d.

Liberal trade-making samples  
given to new stockists.

Bonus offered for Window  
Displays.

Sample and terms from sole makers:—

**DOMINION STEEL CORPORATION, Ltd.**  
Fleet Works, Queen's Road, SHEFFIELD.





The Brushes are made in nine models, retailing from 3/6 to 18/6, all subject to generous discounts giving you a substantial living profit. Can be supplied through your usual wholesaler.

THE "MASON PEARSON" is the only PERFECT Hair-brush made and sold to-day; the reason being that the only perfect hair-brushing material—the black unbleached bristle of the Wild Boar—is used in its making.

There is no disputing the fact that the "MASON PEARSON" brushes much more quickly than ANY OTHER brush; it brushes more efficiently; it cleanses the scalp more gently and thoroughly; it improves the general attractiveness of the Hair, and keeps it at its best. No hair-brush can do more than this.

By selling the "MASON PEARSON" Hair-Brush you enhance your own professional reputation through its good qualities.

# MASON PEARSON HAIR-BRUSH

MASON PEARSON SELLING AGENCY LTD.

59 NEW OXFORD STREET, LONDON, W.C.1

BE BRITISH — BUY BRITISH

THE "LAUREL" Regd.  
SAFETY RAZOR AND BLADE



as illustrated

**6d.**  
RETAIL

COMPLETE  
OUTFIT  
IN CASE

Every "LAUREL" Razor sold creates a regular customer for "LAUREL" Blades

"LAUREL" Brand (1½d. each)  
SAFETY RAZOR BLADES Made in Sheffield, Eng.

Per Packet of  
Four Blades for **6d.** RETAIL

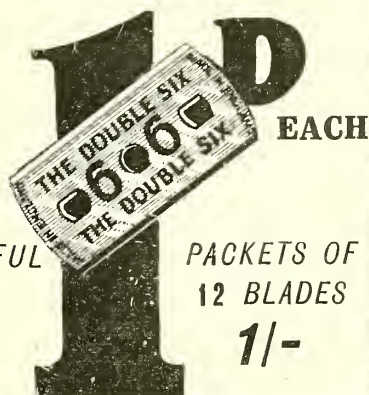
A RECENT TESTIMONIAL

214 SHAVES WITH ONE "LAUREL" BLADE  
H. B. FREEMAN, M.A., Canon Residentiary of Bristol.

**GEO. H. LAWRENCE**  
(Telephone 25571) LTD.  
13 Brunswick Road, SHEFFIELD

GREAT PRICE REDUCTION

**100%**  
PROFIT ON  
"DOUBLE  
SIX"



SELL

THIS

WONDERFUL

BRITISH

BLADE

PACKETS OF  
12 BLADES

**1/-**

Obtainable from your usual wholesaler



# HOLIDAYS!

For renovating holiday garments ensure your Customers' Satisfaction by recommending always

**LUTON  
AURORAL  
WINNER  
WINNER  
VELT HOME DRY CLEANER**

STRAW  
HAT  
COLD  
WATER  
STOCKING  
HOME

# DYES

*Write for Patterns and Full Particulars to*  
**WHITAKER & CO. (KENDAL) LTD. - Dye Specialists, KENDAL, ENGLAND**

**ANTI-GLARE** *SEE WITH EASE* **Spectacles**

for  
**SUN, LAND,  
SEA or AIR**

This Showcard complete with  
One Dozen  
Spectacles  
Assorted Smoke  
and Fieuzal  
LENSES

**8/-**

Loose Spectacles  
for Replacements  
per 6/6 doz.  
Post extra

Our full leaflet of  
SUN GLASSES will  
gladly be sent on  
request

"SEE-WITH-EASE" ANTI-GLARE SPECTACLES, OBTAINABLE ONLY FROM  
**THE GENERAL OPTICAL COMPANY (E. T. & F. W. CORNWELL)**  
120 CLERKENWELL ROAD, LONDON, E.C.1



# SHERLEY'S Bonus Offer

Sherley's Tonic and Condition Powders are booming! The big National Advertising Campaign now in operation cannot but bring more Business to you. Sales are increasing rapidly, and in order to even further help our friends, the Trade, we are offering for a limited period only, a—

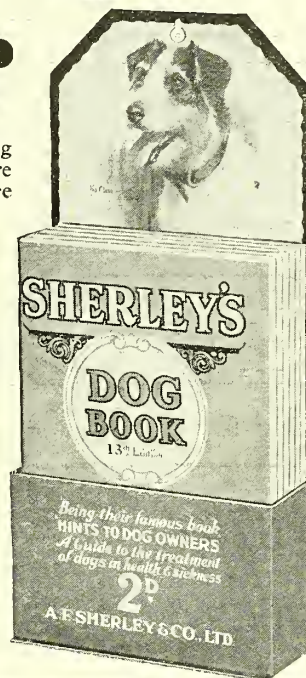
**FREE DOG BOOK  
DISPLAY  
Counter Stand  
& SIX 2<sup>d</sup>. DOG BOOKS**

ON MIXED ORDERS VALUE £1 AND OVER

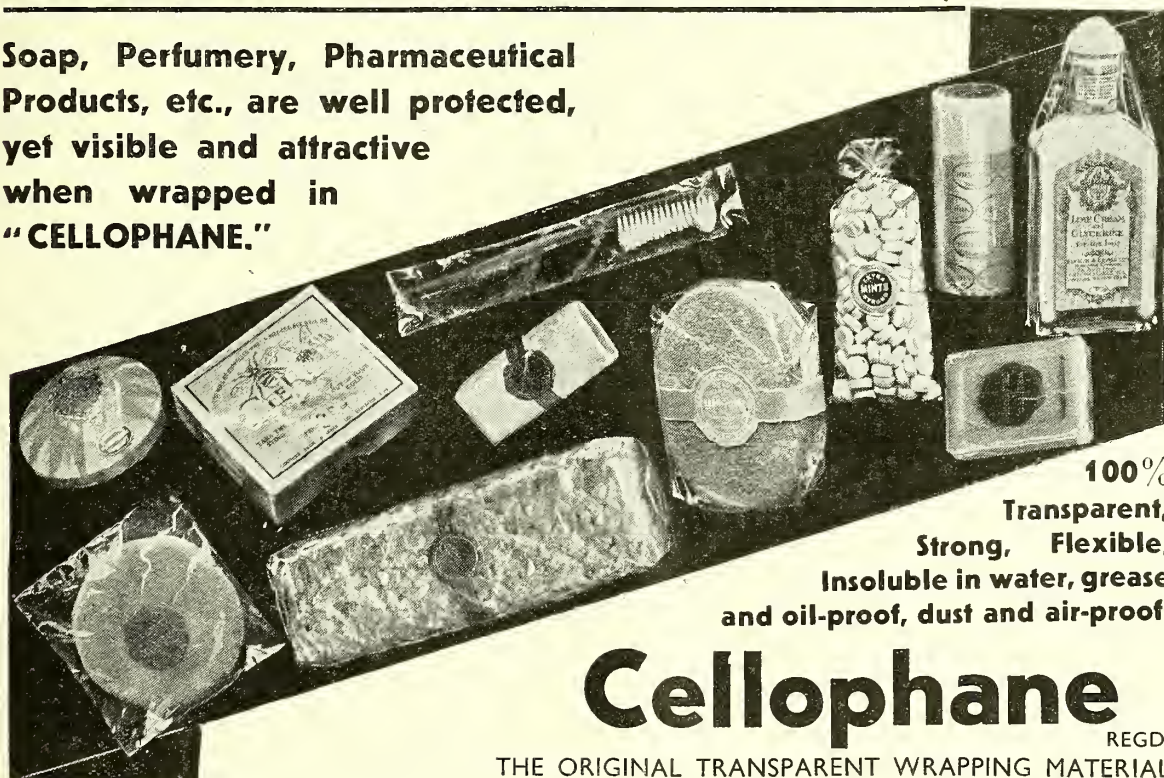
This Neat Metal Stand will take up practically no room on your counter—but it is a permanent Super Salesman. In all our advertisements we are telling the Public to come to YOU for our famous 136 page Dog Book, containing £££'s worth of information for only

2d. They will buy it and they will be INTERESTED, and they will buy SHERLEY'S Products. This Stand is entirely Free, together with six 2d. Dog Books, with every mixed order value £1 or over. Get one NOW!

A. F. Sherley & Co., Ltd., 18 Marshalsea Rd., London, S.E.1



Soap, Perfumery, Pharmaceutical Products, etc., are well protected, yet visible and attractive when wrapped in "CELLOPHANE."



**100%**  
**Transparent,**  
**Strong, Flexible,**  
**Insoluble in water, grease**  
**and oil-proof, dust and air-proof.**

## Cellophane

REGD.

THE ORIGINAL TRANSPARENT WRAPPING MATERIAL

The Cellophane Company, Ltd., 6-9 Bird Street, London, W.1

Cellophane is the registered trade mark of the Cellophane Co., Ltd., to designate its sheets and films of regenerated cellulose



# PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.

And All Other Grades To Suit Every Purpose.

CHEMICALS FOR ALL INDUSTRIES.

'Phone: Mansion House 7300.

Tel. Add.: "Levermore, Phone, London."

**A. LEVERMORE & CO. LTD.** ABC Codes.  
110 CANNON STREET, LONDON, E.C.4. 5th & 6th Editions.

## FRED K. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.3.

TEL: ROYAL 5094.

GUMS, ARABIC and TRAGACANTH as Imported or  
Finely Powdered. :: SHELLACS ALL GRADES.

## MAUD'S CREAM SHAVING SOAP

BRITISH MANUFACTURE

HIGHEST GRADE. GIANT SIZE

In ½ doz. Counter Display Cartons **4/6** doz.

Sole Distributing Agents for Chemists:

THOS. CHRISTY & CO., Old Swan Lane, E.C.4

## DOCTOR'S ADHESIVE PLASTERS with Zinc oxide

THAT DO STICK!

Ask for Price List and Compare

KAYDOR LTD., 30 Howland St., London, W.1

Proprietors  
of

**MORFI**

Rubber  
Products

From the usual Wholesalers or direct—

**Hobson's Choice**

**FEET POWDERS**

**HOBSON, TRIMBLE & CO. LTD.**  
11 Union St., LEEDS.

We supply no one but Chemists and Druggists with  
"SAFEGUARD" Rubber Goods  
They are of Highest Quality and Packed Hygienically.

Samples and Prices on application.

**BURGE, WARREN & RIDGLEY, LTD.**

91/92 GREAT SAFFRON HILL, E.C.1

Phone: Holborn 0050. Telegrams: Pessaries, Smith, London.

## Chemists' Fittings

When you want Shop Fittings it will pay you to send to

**GEORGE COOK**

The Chemists' Working Shopfitter.

27 Macclesfield Street, City Road, LONDON, E.C.1

30 years' experience.

Rough Sketches free.

## TATCHO Sample Size 6D

THE  
HAIR RESTORER

6 Bottles in Case for  
Counter Display,  
4/- PER DOZ.

PROMOTES, PRODUCES, 1/3 size .. 12/6 per doz.  
BEAUTIFIES THE HAIR 2/3 size .. 28/- per doz.

TATCHO Laboratories, 5 Great Queen Street, London, W.C.2

## BONCILLA

Sells easily—displayed or not.  
In tubes or jars from 1/3 upwards.  
As it displaces nothing it is new  
trade with a BIG PROFIT.  
J. C. GAMBLES & Co., Ltd.  
211 Blackfriars Road, S.E.1

**BEAUTIFIER**



## SHADEINE FOR TINTING GREY HAIR

This popular article is largely advertised  
and stocked by all Wholesale Houses.  
Trial size 8d. per doz. .. 6/-  
1/4 size, per doz. .. 12/-  
2/6 size, per doz. .. 24/-  
3/9 size, per doz. .. 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2

The REAL Eyelash GROWER

## "Crescent" EYELASH OINTMENT

Recommended by Oculists and Beauty  
Specialists. Delights all Customers.

Selling price 7/6 per pot. Trade 60/- per doz. Attractively packed  
for show purposes in Gold Cartons of half-a-dozen.

Send now to—THE CRESCENT PREPARATIONS CO.  
4 Woodlands Rd., LONDON, S.W.13 Phone: Putney 2149

## NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's  
Ailments is advertised so extensively in the  
daily and weekly Press as to bring mothers to  
the retailer without effort on his part.

The selling has been done before the mother  
reaches the chemist, and, having supplied her, it  
is only common sense to claim she will buy other  
family necessaries from him. Moreover, the con-  
tinuous demand for it produces a quick turnover.

For Direct Terms apply to—

**OSCAR SCRUTON & CO., YORK**

## C. & D. Stock-Taking Sheets

Halve the Labour of Taking Stock

Price of Complete Pad, 2/6 post free.

The Chemist & Druggist, Publications Dept.,  
28 Essex St., London, W.C.2

**Cachet** CLOSING and FILLING machines  
**3/6 to 32/6**  
to suit all Dispensing Requirements.

WRITE FOR ILLUSTRATED LIST.

THOS. CHRISTY & CO., 412, Old Swan Lane, LONDON, E.C.4



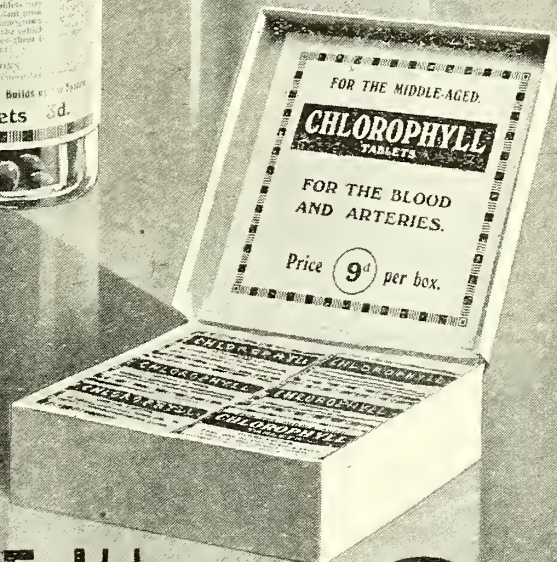
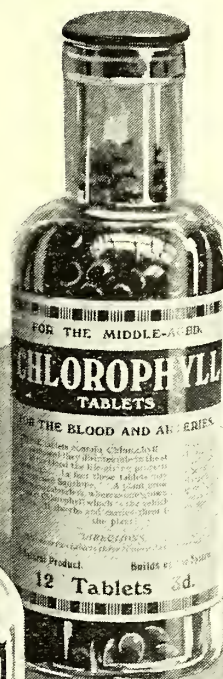
# Chlorophyll

*for the blood & arteries*

3d. Boxes, 1 doz. on card,  
1s. 8d. doz., 3 doz. at 1s. 6d.  
Gross Lots at 3s. 3d. doz.

9d. Boxes, 1 doz. in Box,  
3s. 6d. doz.

1s. 6d. Bottles, 9s. 0d. doz  
Bottles of 500 Tabs., 4/-  
Bottles of 1,000 " 7/-



## POTTER & CLARKE Ltd

60-64, ARTILLERY LANE, LONDON, E.1

MANCHESTER: 24, LUNA ST., GREAT ANCOATS

Phone: Bishopsgate 4761. Grams: "Horsehound, Phone, London."



MB



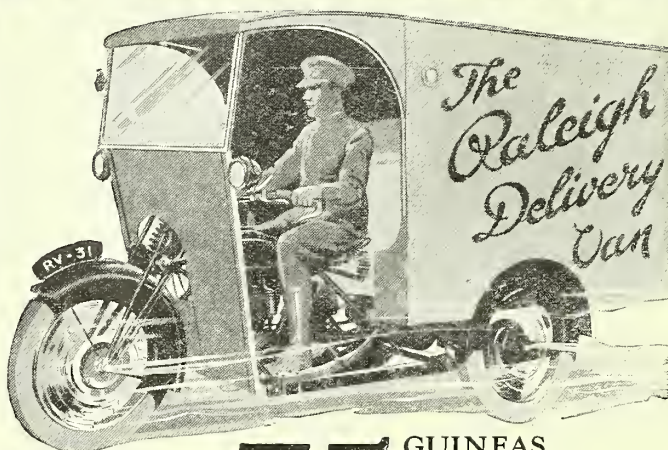
# Carry MORE at LESS cost !

—the 75 GNS. 5-cwt.  
Delivery Van is here

Raleigh lead the way to bigger business with this wonderful achievement—a fully-equipped motor delivery van with greater capacity than any other 5-cwt. vehicle, which reduces operating costs by *half* (it can be driven by a lad of 16).

Sturdily built, of handsome appearance, and backed by Raleigh service and reliability.

Lower transport costs mean more profit — expand your business with the



## RALEIGH DELIVERY VAN

Send for full details. Demonstrations  
arranged **FREE** anywhere.

THE RALEIGH CYCLE CO., LTD., NOTTINGHAM

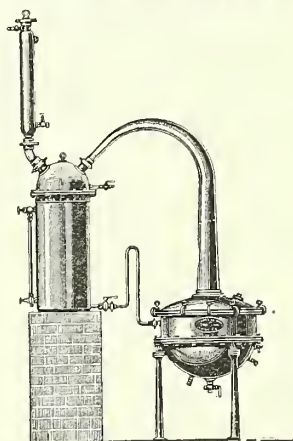
Agents everywhere

**75** GUINEAS  
(ex works) or  
£19 13 9  
deposit and  
£5 19 10  
monthly.

TAX - £4 p.a.

FULL INSURANCE £7 10 0  
3 SPEEDS AND REVERSE  
DIFFERENTIAL REAR  
AXLE

Fully equipped with electric  
lighting, driving mirror, screen  
wiper, etc., etc. — the most  
astounding value on the road.



### STILLS, VACUUM STILLS, VACUUM PANS.

EVAPORATING PANS  
AUTOCLAVES AND DIGESTORS

**SPECIAL APPARATUS AND PLANT  
FOR MANUFACTURING CHEMISTS.**

Sole Makers of Bennett's Patent "Ideal" Annular  
Film Condensers. Shears' Patent Mulser.

**BENNETT, SONS & SHEARS, LTD.**

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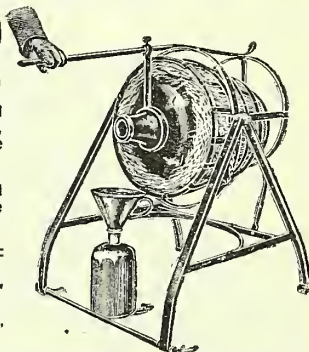
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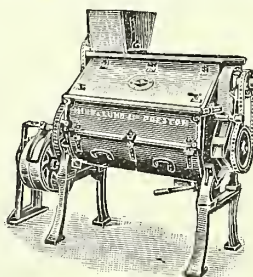
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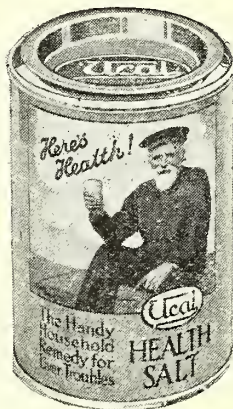


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# THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

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## News of the Week

### Key Industries—Photogravure Screens

Application has been made to the Board of Trade for an Order under Section 10 (5) of the Finance Act, 1926, to exempt photogravure screens (both rulings on one plate) exceeding 40 inches in length and 30 inches in breadth, and having more than 160 lines to the linear inch, from liability to duty under Part I of the Safeguarding of Industries Act, 1921. Communications regarding this application should be addressed to the Principal Assistant Secretary, Industries and Manufactures Department, Board of Trade, Great George Street, London, S.W.1, on or before August 22, 1931.

### Middlesex County Council Report

The latest annual report of the chief officer of the public control department of the Middlesex County Council (Mr. Richard Robinson) covering the year 1930-31, is, as usual, an informative document regarding many activities of the department. The report states that during the year new licences for the sale of agricultural and horticultural poisons were granted, and there are now in force seventeen shopkeepers' and seven assistants' licences. The number of imperial weights examined was 49,473, of which 196 were found to be incorrect; in metric weights the corresponding figures were ninety-six and six. The apothecaries' measures examined numbered 40,742, of which 2,111 were incorrect; 288 metric measures were examined (11 incorrect). Concerning the sampling of articles of food and of drugs, Mr. Robinson makes the following comment:—"If the inspectors were to make their tests without selective discrimination, the figures in the tables would bear a wholly different appearance, and the percentage of samples found to be unsatisfactory as regards quantity and quality would be reduced to a

minute and fractional part of those which are now given. What matters much more than statistics is that this work of public protection shall be carried out with sufficient intelligence, activity and fairness to safeguard adequately the interests both of consumers and of honest tradesmen at a cost to the ratepayers which is not greater than the value of the services rendered."

### Fairchild Scholarship and Prizes

As a result of the recent examination for the Fairchild scholarship and prizes the following awards have been made:—

The Scholarship (£60).—Mr. Maurice Robert Gurd, Portslade.

The Prize for England (£5).—Mr. Sidney Oldham, Ashby-de-la-Zouch.

The Prize for Ireland (£5).—Mr. James Anderson Brown, Belfast.

The Prize for Scotland (£5).—Mr. David Adam Smith, Aberdeen.

The Prize for Wales (£5).—Mr. Mostyn Williams, Cardiff.

### Royal Society of Arts

A selection of industrial designs received in the eighth annual open competition for scholarships and prizes offered by the Royal Society of Arts, manufacturers and others, was opened to the public at the Imperial Institute (East Entrance), South Kensington, London, S.W., on August 1 and remains open till August 31. In our report of last year's exhibition we commented on the absence of designs for pharmaceutical and allied products; this year we notice some striking posters for the following:—Eno's Fruit Salt (prizes offered by J. C. Eno, Ltd.), Wrights' Coal Tar

Soap (prizes offered by WRIGHT, LAYMAN & UMNEY, LTD.) and Bovril (prizes offered by BOVRIL, LTD.). J. C. ENO., LTD., have a special display of cut-out designs for window or counter display purposes. Admission to the exhibition is free, without ticket.

### Society of Apothecaries of London

At the Assistants' Examination, held on July 27, 28, 29 and 30, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:—

Andrews, W. E.	Hinchliffe, M.	O'Donnell, E. C.
Armour, M. K.	Holding, G. A.	Partridge, L. G.
Atkinson, B. F.	Isaac, E. R.	Patterson, O. M.
Aveling, E.	Kearon, J.	Rolfe, E.
Brown, W. M.	Kerr-Smith, D. C.	Thomas, H. E.
Buchanan, N. S. D.	Leeming, E. M.	Thorpe, O. R.
Canning, B.	Loughran, M.	Tolhurst, E.
Cowlishaw, E. A.	Maddy, M. E.	Truss, J. E.
Davag, M. E.	Malkin, L. C.	Turnbull, M. L.
Davies, B. P.	Matthews, G. E.	Wakeford, E. M.
Doxat, I. E. L.	Meek, P. U.	Ward, M. C.
Elias, E. E. M.	Moore, S. N.	Watson, W. M.
Farrington, V. M.	Morris, J.	Wentworth, M. C.
Green, H.	Mossop, H. V. V.	Whitfield, H.
Haigh, E.	Murphy, M.	
Hamer, A. H.	Nicolaidi, S. E.	

### Manchester

The official photograph of the Conference group taken on July 22 is obtainable from Lafayette, Ltd., at 5s. a copy.

A visit to the Manchester Testing House, although it formed no part of the Conference programme, was much appreciated by those who were of the party.

At Salford, recently, F. W. Woolworth & Co., Ltd., Regent Street, were fined £15, with £5 5s. costs, for having sold a mixture of turpentine and paraffin to which the false trade description "Finest Household Turps" had been applied. Thornton & Ross, Ltd., Milnsbridge, Huddersfield, the makers, were fined £7 10s. on each of two related charges, with £5 5s. costs.

Mr. E. H. Simmons, chairman of the Local Committee of the recent Conference, has received several letters of congratulation upon the excellent arrangements which were made for the comfort of the visitors to Manchester. The unstinted praise also received by other members of the Local Committee from the visitors indicate that Lancashire hospitality has once more sustained its reputation.

In Heaton Park on the Sports Day, near the putting green, four small boys were watching one of the competitors. One boy said, "Why, he can't play! he's had six tries to put th' ball in that hole." Another boy retorted, "Shut up! can't you see he's a champion—he's got a medal for it." Evidently the Conference badge is useful in more ways than one.

A correspondent (27/7) writes: "Lancashire was typified well in many of the proceedings of the Manchester Conference. The proverbial hospitality and good will was everywhere in evidence, and those who may have harboured a vain imagination that immersion in commerce means a lack of attainments in other spheres will have been pleasantly disillusioned. What could be more entrancing than the exquisite entertainment at the banquet on Tuesday evening—and all of it the art of Lancashire? Mr. Catterall, a master of the violin, shows how wonderfully versatile local talent can be, and perfect at that. Miss Baillie, endowed by nature with a glorious voice, has not been spoiled by musical culture; her voice has ripened from the time when her melodies delighted a school audience. Mr. Norman Allin gave more than an indication of the capacity of the human voice to charm and exhilarate. To an accompanist falls the burden of sympathetic help; in this sphere the highest appreciation must be accorded to Mr. Wills."

### Sheffield

There is a feeling among the city chemists that there are too many pharmaceutical organisations to work effectively, and that some co-ordination should take place.

Hawking "chemists' sundries" from house to house has been on the increase lately. One case has resulted in a man named Walter Mason being placed upon probation by the city magistrates for acting as a pedlar without a certificate and obtaining money by false pretences.

### Miscellaneous

**POISON-LICENCE APPLICATION.**—G. E. Stevens (High Wycombe), Ltd., High Wycombe, have applied to the Town Council for a licence to sell agricultural and horticultural poisons.

**CLOSING ORDER.**—An order has been made for Carnarvon, introducing closing hours as follows:—Monday, Tuesday and Wednesday, 7 p.m.; Thursday, 1 p.m.; Friday, 7 p.m.; Saturday, 8 p.m.

**COW IN A SHOP.**—Some damage was caused recently in the shop of Mr. L. N. Burch, chemist and druggist, Fore Street, Chard, by a cow, which knocked over several bottles and other goods before it was induced to leave.

**FINE CHEMICAL WORKERS' WAGES.**—A new agreement has been signed between the Drug and Fine Chemical Manufacturers' Association and the National Union of Drug and Chemical Workers, involving wage reductions of 3s. a week for men, 2s. for women, and from 6d. to 2s. 6d. for juniors.

**EARLIER STATUTORY CLOSING HOUR PROPOSED.**—A Bill to amend Section 5 of the Shops Act, 1912, by fixing an earlier hour at which shops may be closed by a closing order was introduced in the House of Commons on July 29. The Bill, which is obtainable at the Stationery Office (Bill 221, 1d.), proposes to substitute "six" for "seven" in subsection 2 of Section 5.

**PROPOSED MEMORIAL TO SIR JOSEPH SWAN.**—A committee has been formed to promote an appeal for a national memorial to Sir Joseph Swan, a pharmacist who was a pioneer in electric lighting and in certain photographic processes. The fund raised will be devoted to scholarships. The secretary is Mr. P. R. Rowell, The Institution of Electrical Engineers, Savoy Place, London, W.C.2.

### Irish Notes

#### Brevities

An inquest was held at Aghnacloy, recently, on the body of Terence Moan, contractor. The jury found that death was due to "strychnine self-administered whilst temporarily insane."

In the recent window-dressing competition, held in connection with Coleraine Shopping Week, the first prize in the section for chemists was awarded to Mr. J. H. White, Ph.C., and the second prize to Mr. R. F. Macartney, Ph.C.

At Derry Petty Sessions, on July 30, the Northern Ireland Ministry of Labour summoned Mr. Arthur E. Dickson, Ph.C., Waterloo Place, Londonderry, in two cases for failure to stamp health and unemployment insurance books. Mr. Dickson contended that the cards were stamped up to April 1 and that they had been lost. He was fined 1s., with 5s. costs, in each case, and was ordered to pay £1 17s. 3d. arrears.

At a meeting of delegates to the Irish Trade Union Congress at Waterford, on August 3, a resolution was carried calling on the Government to introduce a comprehensive Shops Bill, which, while securing for all commercial employees a weekly half-holiday, a limitation of the hours of work to forty-eight in the week, and payment for overtime, will also provide for the proper heating and ventilation of shops and offices. The abolition of the living-in system and the enforcement of shops legislation by a central authority was proposed.



## Scottish Notes

### Grocers Support Pharmacy and Poisons Bill

The Scottish Federation of Grocers' Associations has sent a communication to Members of Parliament asking them to support the Pharmacy and Poisons Bill. The letter states:—"The present monopoly enjoyed by members of the Pharmaceutical Society in the sale of articles of everyday use, such as effective disinfectants, sanitary commodities, agricultural preparations, etc., is such as to cause great inconvenience to the public, especially in the scattered areas in Scotland, where, in many instances, no chemist shop exists and the general trader is relied upon to supply the public requirements of the area. . . . The Federation notes also that suggestions have been put forward designed to limit the articles to be included in Part 2 of the Bill, and further that before granting a licence the local authority shall take into consideration whether the reasonable requirements of the public have been met with in regard to the articles which the applicant desires to sell. The first suggestion would, in the opinion of the Federation, conceivably prevent the sale by general dealers of articles in wide use for domestic cleaning purposes such as ammonia, etc., and the second suggestion would create a most unsatisfactory condition of affairs, as between one trader and another."

## Sporting Events

THE London Chemists' Golfing Society held a meeting at the West Herts Golf Course, Watford, on July 16, to compete for the Yardley cup. The course was in splendid condition. The following were the leading scores:—

F. G. Cosser	...	...	...	89-14=75
P. O. Royle	...	...	...	91-16=75
R. Ward Jones	...	...	...	93-16=77
G. G. Gibson	...	...	...	97-18=79
E. G. Nice	...	...	...	91-11=80
H. Kemp	...	...	...	97-15=82

The tie was played off at Thorndon Park and F. G. Cosser proved to be the winner. A meeting was held on July 26 at Thorndon Park to compete for the Cox prize. The weather was good in the morning, but later turned, further play being impossible. The following were the best scores:—

H. Mountford	...	...	...	97-18=79
H. B. Walker	...	...	...	95-16=79
M. W. Carmichael	...	...	...	89-9=80
A. W. Daniel	...	...	...	87-7=80
C. A. Macdonald	...	...	...	86-5=81
E. G. Nice	...	...	...	92-11=81

The tie for first place has not yet been decided.

# Topical Reflections

By Xrayser

### A Sign of the Times

is the setting up of the Therapeutic Trials Committee, to the appointment of which by the Medical Research Council you direct attention (*C. & D.*, August 1, p. 139). Until now it has been left to the manufacturers of new medicinal products to arrange as they thought fit for clinical trials, with the attendant difficulty of not always being able to ensure the necessary tests being conducted in a sufficient number of suitable cases. As a rule, I believe, it is the custom for free samples to be supplied to such private practitioners as are willing to accept them, and to rely upon those practitioners to make use of them in cases thought to be suitable. But what happens, I imagine, is that in many instances the samples are only tried, by way of experiment, when the ordinary remedies have failed in particular cases. Evidence of this sort of thing can be furnished by many chemists who carry on business in districts where doctors fond of trying new products alleged to possess remedial properties are in practice. Sometimes good luck attends the empirical trials, but more frequently it does not, and an element of uncertainty seems to attach itself to the results obtained by such happy-go-lucky clinical trials, so-called. More systematic methods doubtless characterise the procedure adopted by some manufacturers of new products offered for the treatment of disease, but it seems all to the good that opportunity should now be provided for arranging properly controlled clinical tests. The new committee is a strong one, including individuals of the highest repute, and both medicine and pharmacy ought to benefit by its existence.

### Price Protection

is unquestionably fair as practised in connection with our business, and I share your hopes for a favourable outcome of the deliberations of the Departmental Committee appointed to inquire into the matter (p. 158). It is interesting to note in this connection the passage you quote from the report of the secretary of the Central Committee of the Grocers' Pro-

prietary Articles Association (p. 139). Apparently other retail traders now appreciate the blessings of price protection of proprietary articles, and we learn that those who have built up businesses on the basis of price cutting are experiencing greater difficulty in obtaining supplies. When facilities for obtaining regular supplies begin to fail and depleted stocks cannot be replaced without increasing difficulty and expense, the way of the systematic cutter tends to become hard. This is as it ought to be, and it is sincerely to be hoped that the report of the Departmental Committee will not indicate any tendency to sympathise with those who seek to prosper by undermining the business stability of straightforward traders.

### The Pharmacy Subcommittee

of the Pharmacopœia Commission is to be commended upon its willingness to accept suggestions for modifying its own proposals. I am, of course, fully conscious of the fact that criticisms and suggestions were specifically asked for when the first report of the Subcommittee was published, and it was stated that careful consideration would be given to such criticisms and suggestions. But it is nevertheless something of a surprise to find that the promised consideration has already resulted in modification of some of the original proposals, as indicated in your excerpts from the second report of the Subcommittee. Among other changes, the description of the process of percolation has been revised, while the substitution of cottonseed oil for lower grade olive oil has been reversed in response to adverse criticism, and greater elasticity is proposed in connection with the preparation of solution of cresol with soap. These three instances of open-mindedness have been noted while glancing through your abridgment of the second report, and I do not doubt that there may be others. It seems to me most gratifying that such prompt attention should be given to criticisms and suggestions, and I trust that similar promptitude may characterise the Codex Revision Committee of the Pharmaceutical Society in considering the result of experiments conducted by Mr. Markwell (p. 168) and others who may follow his example in the matter of publication in your columns.



## Legal Reports

**Rival Veterinary Medicines.**—The case of Day, Son & Hewitt, Ltd., v. Southall Brothers & Barclay, Ltd. (C. & D., June 20, p. 704), was again mentioned before Mr. Justice Bennett in the Chancery Division of the High Court, London, on July 31. Mr. P. Stuart Bevan, for the plaintiffs, reminded his lordship that when the matter was last before the court the defendants gave an undertaking on a motion for an injunction not to infringe the plaintiffs' trade mark until the trial of the action. The parties had in the meantime come to an arrangement subject to his lordship's consent. The defendants had consented to a perpetual injunction not to infringe the plaintiffs' trade mark or pass off their own goods by the use of the words "Red Drench," "Red Cattle Drench" and "Red Drench for Cattle," or by imitating the plaintiffs' get-up or otherwise, but there would be reserved to the defendants the right to use their own trade mark, consisting of a red star and the device or a star in connection with the preparation and marketing of their own goods. There would be an inquiry as to damages, the costs of the inquiry being reserved, with liberty to either party to apply. Mr. Justice Bennett: Very well, by consent.

**A Bill for Advertisements.**—In the King's Bench Division of the High Court, London, on July 31, Mr. Justice Avory heard a claim against Irving's Sea Vitoids, Ltd., Copthall Avenue, E.C.2, for the sum of £1,783. The plaintiffs were Charles D. Clayton, Ltd., advertising agents, Charing Cross Road, W.C.2. Mr. Charles D. Clayton, managing director of the plaintiff company, said that last March the defendant company owed his company £2,183, 85 per cent. of which had been paid out to newspapers for the defendants' advertisements. A sum of £400 was paid by defendants on account, and he then agreed to stop the proceedings that were pending for the recovery of the sum due and withdraw the writ. It was also agreed that his company should retain defendants' advertising. That arrangement was come to because he understood that the defendants were negotiating with Beecham's Pills, Ltd., for the sale of foreign rights in Yeast Vite, and were expecting further to develop their business. For Irving's Sea Vitoids, Ltd., it was submitted that when Mr. Clayton signed the agreement to stop all proceedings and withdraw the writ he agreed to withdraw the present action and accept £400 as ample consideration. His lordship gave judgment for the plaintiffs, with costs.

**Headache Powders.**—At Dunfermline, on July 30, Sheriff Umpherston gave his decision in an action brought by Robert McNeil against the Kelty Co-operative Society, Ltd., claiming the sum of £500 as damages, plaintiff alleging that he suffered illness after taking a headache powder supplied to him from the company's drug store at Kelty. The plaintiff called a local medical man to give evidence. Dr. Alan S. Tuke, Dunfermline, and Dr. A. R. Gilchrist, assistant physician to the Royal Infirmary, Edinburgh, who examined the pursuer, expressed the view for the defence that the pursuer was a man who had a constitutional idiosyncrasy to aspirin. In giving judgment for the defenders, Sheriff Umpherston said he was not surprised that the pursuer should have thought he had been poisoned by the headache powder which he had purchased from the defenders. He produced the envelope in which the powder was contained, and this not only proved that the powder was not dispensed in the defenders' shop, but when and by whom it was prepared, and, incidentally, showed that some of the evidence for the pursuer could not be accepted at its face value. He and his daughter both said the powder was pink in colour. But the aspirin used by the manufacturers was white, and all the other powders out of the six dozen examined were white. Several recorded cases were referred to, and legitimate criticism was made by the

pursuer's counsel on the suggestion that this was a case of sensitiveness to aspirin.

**The Sale of Quinine Wine.**—At Gateshead County Police Court, on July 30, Mr. Alexander Murray, chemist and druggist, was summoned for having sold a bottle of quinine wine without having a justices' licence authorising him to hold an excise licence for the sale of intoxicating liquor. The prosecution was brought under the Licensing Act, 1910, Sec. 65. Mr. F. J. Lambert, who prosecuted on behalf of the police, stated that the facts of the sale were admitted. When the summons was served on Mr. Murray, he replied: "If things go on as they are doing we chemists will not be able to live, as there is alcohol in everything we sell." Mr. Cyril Stock, B.Sc., Durham County Analyst, stated that the wine contained 22.23 per cent. of proof spirit, 17.69 per cent. of extractive matter, and 0.228 gr. of quinine hydrochloride per 100 millilitres. "Some people might use it as a wine, but the presumption is that it would be used as a tonic," said Mr. Stock. A magistrate inquired what heading Wincarnis came under, and was told that it was not included in the British Pharmacopœia. Mr. Lambert: Is this wine intoxicating?—Undoubtedly it would be if much was taken. In reply to Mr. Foster (representing the defendant), Mr. Stock did not agree that orange quinine wine was a medicated spirit. Mr. Foster said that the point to be decided was whether orange quinine was a beverage or a medicine. Section 3 of the Act provided for exemption of medicated spirits. If the Bench were satisfied that it was a medicated spirit and not a beverage the Board of Excise said it was not necessary to take out an excise certificate. "I say it is a medicated spirit, and as such it is exempted under Section 3," declared Mr. Foster. He asked the Bench to draw a wide distinction between a case quoted in regard to Wincarnis and this case, submitting that there was no analogy between the two. The case for the defence was that it was a medicated spirit, and as such exempted from licence. No chemist in the country would be able to carry on his business if he was not allowed to sell this kind of article, said Mr. Foster. Mr. Lambert submitted that where chemists sold these wines without a wine licence an offence was being committed. It was stated that Mr. Murray had been fined twice before (£10 in February 1925 and £15 in July 1929) for selling intoxicating liquor without a licence. A fine of £15, with £8 19s. costs, was imposed. Mr. Foster asked the magistrates to state a case, which was agreed to, and a second charge, that of exposing the wine for sale, was adjourned for a month pending an appeal.

**Twenty-nine D.D.A. Summonses.**—At Southampton Borough Police Court, on July 31, the magistrates heard a case comprising twenty-nine summonses, under the Dangerous Drugs Acts and Regulations, issued against Mr. David French Ritchie, Ph.C., Wilton Avenue. To the following five of them he pleaded "Not guilty":—

Supplying to Jacques Vogt 90 minims of laudanum on January 15, 1929, and four drachms of liquid extract of coca on July 5, 1929, otherwise than in accordance with the terms and conditions of his authority, contrary to the Dangerous Drugs (Consolidation) Regulations, 1928, 2 (b); failing to keep a record of the sale to Jacques Vogt on July 5 of four drachms of liquid extract of coca; exporting from the United Kingdom on September 11, 1929, three grams of morphine sulphate and one gram of crystals of cocaine, without having a licence authorising him so to do; and failing to keep a record of the sale on September 11, 1929, of three grams of morphine sulphate and one gram of crystals of cocaine.

Of the summonses to which a plea of "Guilty" was entered, fifteen related to the failure to keep record of purchases of drugs, over a period from September 1927 to November 1929. Two others were for failing to mark the date on which a drug was dispensed to O. Gidden; three referred to the failure to keep a record of supplies of drugs to O. Gidden; three for failure to mark the date on which those drugs were dispensed, and one for failure to specify the amount of drugs to be supplied. The defendant was represented by Mr. K. E. Streat, solicitor. The prosecution was conducted by Mr. A. J. Rogers,



who told the Bench that he was desired to call attention to the penalty which was prescribed with a view of showing how seriously the law regarded it. The defendant was a chemist, and traded in Shirley Road, Southampton. He commenced business in 1926, and in August 1930 a company was formed. The defendant remained as a director of the company for some time, and it was only fair to the existing company that he (Mr. Rogers) should point out that the offences were committed at a time when the business was in the sole occupation of Ritchie, so that the present company had nothing whatever to do with them. Vogt left England in July 1929. The Bench would see that beyond all possible doubt Vogt received the drugs referred to in the summonses concerning this matter from the defendant, and signed the register. As he (Mr. Rogers) understood the Regulations, it was not necessary for Vogt to do it. That transaction purported to come about on the prescription of a doctor named P. de Langenhagen. The British register had been searched, and there was no gentleman on it of that name. In July and August 1929, it was alleged, the defendant bought or obtained 1,037 gr. of cocaine hydrochloride and 378 gr. of morphine sulphate. Of that quantity, 208 gr. of morphine sulphate and 928 gr. of cocaine hydrochloride were unaccounted for. Mr. Streat interposed that there was no record of any sales. Mr. Rogers replied that if his friend was going to suggest that in July and August 1929 208 gr. of morphine sulphate had been put into medicines or ointments, then the defendant's business must be phenomenal. Detective-Sergt. Hill, giving evidence, summarised the results of his inspection of the books kept by the defendant during the time he was sole proprietor of the business. In the course of his inquiries he saw Mr. V. H. Freemantle, chemist and druggist, managing director of the Millbrook Pharmacy, Ltd., and received from him a letter signed "Jacques V." The letter contained the sum of 60 francs and requested Mr. Ritchie to send as soon as possible a supply of "one gram C.M. and two grams C.C."

The defendant, in the witness-box, told the magistrates that he started in business in Newport, Isle of Wight, and was there about twenty years. Vogt asked him for laudanum; he told him that he could not supply it undiluted, but that if he would sign the poisons book to protect him (defendant) he could supply it after diluting it. He dispensed it as an eye lotion, and diluted the 90 minims to 3iss., which took it outside the ambit of the Dangerous Drugs Acts. On July 5 he supplied Mr. Vogt with four drachms of liquid extract of coca after diluting it with glycerin so as to bring it outside the Acts. Referring to a purchase of two drachms of cocaine hydrochloride from John Bell, Hills & Lucas, Ltd., London, and a similar amount from Randall & Wilson, Ltd., Southampton, on the following day, the defendant said he ordered the first, but as it did not arrive in time for his requirements he purchased some more locally. He denied that he had sent dangerous drugs abroad, and declared that the "M.S." referred to methyl sulphonol and the "C.C." to citrate caffeine. Replying to his solicitor, the defendant said that Vogt bought hypodermic needles, but he did not know what he wanted them for, as he did not ask him. Cross-examined: Vogt told him that he had passed two medical examinations. Witness had never received a letter from France asking for "one gram C.M. and two grams C.C." In addressing the Court on the defendant's behalf, Mr. Streat laid stress on the contention that the whole proceedings had resulted from his client's own action in disclosing a certain complaint to the police. He asked whether it was conceivable that a chemist of his experience, if he had been dealing illicitly in drugs, would have been likely to go to the police with a complaint, when an investigation would have revealed his own transactions, if those transactions had not been straightforward? The defendant was found guilty on all summonses. The Bench ordered him to pay £5 in respect of each of the summonses to which he pleaded "Not guilty," and £1 on each of the fifteen summonses for failing to keep a record of the purchase of drugs. He was also ordered to pay the costs, making altogether £48 4s. 6d. He was given a month in which to pay.

## New Companies and Company News

**P.C. means Private Company and R.O. Registered Office.**

**CROFTS NURSING HOME, LTD. (P.C.).**—Capital £500. Objects: To carry on the business of a nursing home, etc. R.O.: 17 Ladybridge Road, Cheadle Hulme, near Stockport.

**J. V. SINNOTT, LTD. (P.C.).**—Capital £200. Objects: To carry on the business of consulting, analytical and manufacturing, pharmaceutical chemists, drug merchants, etc.

**J. L. ROBINSON (CHEMIST), LTD. (P.C.).** Capital £500. Objects: To carry on the business of chemists, druggists, drysalters, oil and colourmen, etc. R.O.: 89, Linthorpe Road, Middlesbrough.

**ZONOL, LTD. (P.C.).**—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in foods, tablets, pills, specifics and patent medicine, etc. R.O.: 180 Fleet Street, E.C.4.

**J. E. GARLAND, LTD. (P.C.).**—Capital £2,000. Objects: To acquire the business of a chemist, druggist and photographic and fancy goods dealer carried on by J. E. Garland at Winner Street, Paignton.

**MODERN INDUSTRIAL DEVELOPMENT, LTD. (P.C.).**—Capital £100. Objects: To carry on the business of consulting industrial chemists and engineers, analytical chemists, manufacturers of and dealers in chemicals, drugs, etc. R.O.: 5 Hill Road, Mitcham.

**PYBUS BROS., LTD. (P.C.).**—Capital £10,000. Objects: To acquire the business of candle manufacturers now carried on by R. H. Pybus and E. M. Pybus at Friar Gate, Derby, and at Barton Hill, Bristol, as "Pybus Brothers." Solicitors: Gadsby, Coxon & Copestake, Derby.

**GWENT HILLS, LTD. (P.C.).**—Capital £500. Objects: To carry on the business of manufacturers of and dealers in lemonade, lime juice, lemon squash, and other non-alcoholic ales, and any other description of mineral and aerated waters, including cordials, medicated and non-alcoholic wines, etc.

**ROBINSON BINDLEY PROCESSES, LTD. (P.C.).**—Capital £5,000. Objects: To acquire interests in any processes relating to the distillation, hydrogenation or carbonisation of bitumen, coal, shale, lignite, slack, peat and other minerals, and to adopt an agreement with W. T. R. Bindley. The first directors are: W. T. R. Bindley, 162 Worple Road, Wimbledon; Major E. M. L. Ainslie, J. E. Charlesworth, W. H. McConnel, J.P., E. B. Whalley and C. W. Pearson.

**COMPANIES DISSOLVED.**—Notice has been given in "The London Gazette" that the names of the under-mentioned companies have been struck off the register and the companies dissolved: Aseptic Toilet Association, Ltd.; Automatic Bottle Machine Corporation, Ltd.; Dental and General Radiography, Ltd.; Soap King, Ltd.; Vytameal Flour, Ltd.

## Private Arrangements

**H. K. ROSS, Station Road, Guildford, chemist and druggist.**—A meeting of the creditors was held recently at the Wholesale Chemists and Allied Trades Protection Association, 13 Old Jewry Chambers, Old Jewry, London, E.C., when a statement of affairs was submitted which disclosed liabilities of £381 16s. 10d., all due to unsecured trade creditors. In addition there were fully secured creditors for £160 13s. 8d. holding security valued at £175. The assets consisted of cash in hand, £5; stock estimated by the debtor at £300; fixtures and fittings, £10; book debts, £1 5s.; household



furniture, £40; and surplus from securities in the hands of fully-secured creditors, £14 6s. 4d., making total assets of £370 11s. 4d., from which had to be deducted £57 17s. for preferential claims, leaving net assets of £312 14s. 4d., or a deficiency of £69 1s. 9d. The debtor commenced the business a little over twelve months ago and a seven years' lease was taken. The turnover up to the end of June of this year amounted to £665, and the drawings had been a little over £4 per week. It was resolved that the debtor should execute a letter of authority to a director of the Wholesale Chemists and Allied Trades Protection Association, in order that the assets could be realised to the best advantage and distributed to the creditors *pro rata*. He also undertook to execute a deed of assignment if the assets should at any time be in jeopardy. A committee was also appointed.

**John David Owen Jenkins**, chemist and druggist, 225, Lewisham High Road, and 10 Randlesdown Road, Bellingham, Kent. A meeting of creditors was held recently at the offices of the Association of Manufacturing Chemists, Holborn Viaduct, London, E.C. The statement of affairs showed ranking liabilities of £673 18s. 7d., of which £662 18s. 9d. was due to the trade and £10 19s. 10d. to the bank. In addition there was a fully secured creditor for £400, who held security valued at the same amount. After allowing £41 for preferential claims, the net assets were £562 19s. 6d., or a deficiency of £110 19s. 1d. The assets consisted of cash at bank, £3 15s. 3d.; cash in hand, £15 4s. 3d.; stock, £600, expected to produce, £450; furniture, £20; legacy, £100; and book debts, £20, valued at £15. Mr. Parkin S. Booth stated that the fully secured creditor advanced £400, and held a first charge on the leases of the two shops and also on the goodwill, fixtures and fittings. The available records showed that the turnover at Lewisham had averaged £24 6s. 2d. per week. The profits were estimated at £8 weekly, whilst the expenses, including drawings and wages of £4 10s., were about £10 per week. The Bellingham business was taken over last November, and the turnover there had averaged £19 8s. 5d. per week. The gross profit was estimated at £6 to £7 per week, whilst the expenses were between £8 and £9 weekly. Debtor had been pressed by creditors. No offer could be submitted at the moment, but there was a possibility of the businesses being disposed of. It was decided that the matter should be dealt with under a deed of assignment, with Mr. Booth and Mr. P. E. Slack as joint trustees. The following are creditors:—Burgoyne, Burbidges & Co., Ltd., £24; Brooks & Warburton (American Drug Supply Co.), Ltd., £248; A. de St. Dalmas & Co., Ltd., £37; Evans Sons Lescher & Webb, Ltd., £19; Farmer, W. A. E., £24; Idris, Ltd., £20; Kodak, Ltd., £15; Newbery, F., & Sons, Ltd., £21; Ounsted, A. W., £27; Parker Pen Co., Ltd., £75; Parscent, Ltd., £11; Townsend, J., & Sons, £19; United Chemists' Association, Ltd., £38; Yardley & Co., Ltd., £10.

## Bankruptcy Reports

**John Gee**, 2 King Street East, Stockport, Lancs., wholesale druggist. The public examination was held on July 31 at the Court House, Vernon Street, Stockport. The statement of affairs showed liabilities of £773 19s. 9d., and assets of £61 18s. 8d., leaving a deficiency of £712 1s. 1d. The debtor stated that from 1920 to 1929 he was employed as a druggist's agent, and in January 1929 he decided to commence business on his own account. He had a capital of £90, but within three months of starting business he was obliged to borrow from moneylenders to the extent of £50 to increase his range of lines. He attributed his position to lack of capital and depreciation on value of stock, but the Official Receiver remarked that the true cause appeared to have been the debtor's disregard of commercial morality and inattention to the business. The business had consisted mainly of buying goods in bulk and breaking them up to sell to retailers. The debtor had been aware of his position for some time. The examination was closed.

## Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 30, 1930	June 30, 1931	July 31, 1931
	s. d.	s. d.	s. d.
Allen & Hanburys 7% Prefd. Ord.	21 6	21 6	21 6
Amalg. Dental Co., 8% Prefd. Ord.	19 0	19 3	20 3
" " Deferred 5s. ..	3 3	3 6	3 9
Apollinaris and Johannis, Ord. £1 ..	6 0	4 3	4 0
Ayrton, Saunders & Co., 7½% Pref.	14 6	13 6	13 6
Beechams Pills, Deferred 1s. shares	2 6	1 7½	1 7½
Benger's Food, Ord. ..	30 6	29 6	28 0
Boake (A.), Roberts & Co., 5% Pref.	16 3	16 3	15 6
Boots Pure Drug Ord. ..	111 3	116 3	117 6
Boots Pure Drug, 7% "A" Prefd. Ord.	23 6	24 0	24 0
Boots Cash Chemists (S.), 6% "A" Pref.	21 6	22 0	22 0
Borax Consol., Dfd. Ord. ..	10 0	11 0	9 3
Bovril, 6% Pref. ..	23 0	22 9	22 9
" Ord. ..	25 0	23 6	23 9
" Dfd. ..	37 3	36 3	33 0
British Cyanides, Ord., 2s. shares ..	1 9	0 10½	0 9
British Drug Houses, The, Ord. ..	17 0	14 9	15 0
British Oil and Cake Mills, Ord. ..	27 6	28 9	27 9
British Oxygen, Ord. ..	24 0	15 0	14 6
British Photo. Indus., 6% Cum. Pref.	15 6	13 0	12 6
Bush (W. J.) & Co., 5% Pref. £5 ..	63 0	60 0	60 0
Cadbury Bros., 6% Pref. ..	23 3	23 9	24 0
Callard, Stewart & Watt, Ord. ..	27 6	21 3	21 3
Crosfield (Joseph) & Sons, 6½% Pref.	21 6	22 0	22 6
Drug Incorporated (no par value) ..	\$62	\$73	\$74½
Dubarry Perfumery, Ord. 1s. ..	6 0	5 0	4 6
" " 7½% Pref. ..	20 0	19 9	19 9
Eastman Kodak Com. (no nom. value)	\$149	\$156	\$141½
Evans Sons Lescher & Webb, Ord.			
6s. 8d. shares	3 6	2 9	2 3
" " 6% cum. part. Pref.	4 9	3 6	2 9
Field (J. C. & J.), Ord. ..	11 3	12 6	12 6
Galloway (P. H.), Ord. 2s. ..	2 9	2 6	2 6
" " 7½% Cum. Pref. ..	21 0	19 3	19 6
Gossage (William), 6½% Pref. ..	21 3	21 3	22 0
Groat & Co., Ord. ..	15 0	12 6	12 6
Heppells, 7% cum. part. Pref. ..	3 0	—	—
Hodders, Ord. 1s. ..	0 6	0 3	0 3
Idris & Co., "A" Ord. ..	20 9	20 0	20 0
Ilford, Ltd., Ord. ..	46 3	27 6	27 6
" " 6% Pref. ..	20 6	21 3	21 0
Imperial Chemical, 7% Pref. ..	21 9	20 9	19 0
" " Ord. ..	18 0	15 3	12 0
" " Dfd. 10s. ..	5 0	4 3	3 0
Intern. Sponge Importers 6% Pref.	10 0	8 9	8 6
Kent (G. B.) & Sons, 5½% Pref. ..	10 6	7 0	6 3
Knight (John), 25% Prefd. Ord. ..	67 6	67 6	67 6
Laporte (B.) & Co., Ltd., Ord. ..	19 0	18 0	18 6
Lever Bros., Ltd., 7% Pref. ..	22 9	23 3	23 3
" " 8% Pref. ..	22 9	22 7½	22 3
" " 20% Prefd. Ord. £1 ..	12 0	12 0	48 0
Lewis & Burrows, Ord. ..	28 9	27 6	25 6
" " 6% Pref. ..	17 6	17 6	16 6
Liebig's Ext. of Meat, Ord. £5 ..	£14½	£10½	£9½
Mellin's Food, 6% Pref. ..	2 6	2 0	2 0
Nathan (Joseph) & Co., 7% Pref. ..	17 0	15 0	15 0
" " 8% Prefd. Ord. ..	8 0	6 0	6 3
National Drug and Chemical Co. of Canada, 6½% Pref. ..	2 0	2 3	2 3
New Transvaal Chemical Co., 6% Pref.	20 0	20 3	20 3
" " 8% Pref. ..	22 9	22 6	23 0
Phosferine (Ashton & Parsons) 8% cum. part. Ord. ..	11 3	10 0	8 0
Salt Union, Ord. ..	31 3	23 9	23 9
" " Pref. ..	32 6	27 6	28 9
Sangers, Ord. 5s. ..	8 3	7 9	7 9
"Sanitas," The, Co., 9% Pref. ..	25 0	23 9	23 0
Sanitas Trust, 10% part. Pref. ..	22 6	23 0	22 6
Schweppes, Ltd., Ord. ..	31 6	23 9	24 0
" " Dfd. ..	32 6	22 6	22 6
Smith (Stephen) & Co. Ord. 5s. ..	6 0	4 9	5 7½
Solidol Chem. Co., Ord. 1s. ..	0 2	0 1	0 1½
Southall Bros. & Barclay, Ord. ..	103 6	107 6	107 6
" " 5% Pref. ..	19 3	20 0	19 9
Spratt's Patent, Ord. ..	48 0	50 0	49 0
Stevenson & Howell, 6½% Cum. Pref.	17 6	16 9	16 9
Taylor's Cash Chemists (Lon.) 1s. Dfd.	1 6	0 10½	0 7½
Taylor's (Cash Chemists) Trust, 7½% Cum. Pref. Ord. ..	18 9	11 0	11 6
" " 1s. Dfd. ..	1 10½	0 6	0 10½
United Glass Bottle Man., 6% Mt.			
Deb. Stk., £100 ..	£103	£102½	£102½
Veno Drug Co., 8% Pref. ..	15 0	10 6	10 0
Virol, Ltd., Ord. ..	65 0	40 0	27 6
" " 7% Pref. ..	21 3	21 3	21 9
White (A. J.), Ltd., Ord. 10s. ..	12 6	11 9	11 3
White (Timothy), 7½% Prefd. Ord.	21 0	18 0	17 6
" " 1s. Dfd. Ord. ..	1 10½	1 4½	1 4½
Wright Layman & Umney, 6% Pref.	20 7½	20 0	20 6





I

*When I was a youngster I first was apprentic'd  
Unto a gay barber so dapper and airy,  
Inext was a carpenter; then turn'd a dentist,  
Then a taylor good lord, then an apothecary.*

CHORUS

*But for this trade or that,  
They all come as nat  
As they can;  
For shaving and tooth-drawing,  
Blinding cabbaging and sawing,  
Dickey Gossip's the Man.*

2

*The taylor and dentist but awkwardly tether  
In both the vocations I still have my savings  
And two of my trades couple rarely together  
For barber and carpenter both deal in shavings.*

3

*But blunders will happen in callings so various,  
If fancy they happen to some who are prouder,  
I once gave a patient whose health was precarious  
A terrible dose of my best shaving powder.*

*Published Aug. 10, 1795 by J. Marshall N<sup>o</sup> 24  
Aldermary Church Yard London*



## Retail Pharmacists' Union

### Executive Meetings

MEETINGS of the Executive of the Retail Pharmacists' Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, on July 28, Mr. W. H. Clubb in the chair.

#### ORGANISATION

The Organisation Committee reported that they had considered the geographical distribution of the branches of the Union, and decided that branches were needed at Hereford, Salisbury, Swindon, Weymouth, Kendal, Kettering, Aylesbury, High Wycombe, Chelmsford, Tunbridge Wells and St. Helens. The secretary was authorised to ascertain whether branches could be established in these centres.

The Organisation Committee had also considered the desirability of holding mass meetings during the coming winter, and had decided that a mass meeting of chemists should be held at centres in various parts of the country so arranged as to give every chemist a chance of attending one or other of the meetings.

#### NEW N.H.I. DRESSING

A letter from the Ministry of Health submitting new specification for the Standard Dressing No. 2 was received. It was decided to accept the altered specification and that the change should be made from January 1 next. The new dressing would contain:—Boric lint, 12 in. by 12 in.; absorbent cotton-wool, B.P.C., 240 gr.; oiled cambric, 6 in. by 6 in.; white open-weave bandage, B.P.C., 2 in. by 4 yds.

#### BOARDING HOUSES AND HOTELS

Many letters had been received from members complaining of the competition of manufacturers and wholesalers in the supply of soaps and toilet goods to hotels and boarding houses. The secretary was instructed to communicate with the firms concerned.

#### GIFTS WITH PROPRIETARY ARTICLES

The attention of the Executive was drawn to the practice of enclosing gifts with the packages in the case of certain proprietary articles. Although no action could be taken to prevent such schemes being launched, the Executive regretted the introduction of these methods of business into pharmacy, and directed the secretary to take such action as was possible to discourage the practice.

#### C.D.A. Matters

The secretary reported that there were three cases outstanding since the last meeting, of which one had been settled as follows:—Illness caused by liniment not supplied in poison bottle and taken in error; claim settled by payment of £35 1s. Ten new cases had arisen during the month, of which six had been settled:—(1) Loss of calves, owing to powders supplied too strong; claim settled by payment of £6. (2) Handkerchiefs burned by wrong marking ink supplied; claim settled by payment of 6s. 9d. (3) Damage to batteries caused by methylated spirits supplied for distilled water; claim settled by payment of £5. (4) Damage to cycle caused by cycling errand-boy; claim settled by payment of 17s. 4d. (5) Damage to car caused by cycling errand-boy; claim settled by payment of £4 2s. 10d. (6) Injuries to foot caused by broken skylight; claim settled by payment of £10.

#### Branch Meetings

**Leicester.**—The annual meeting of the Leicester and Leicestershire Branch was held on July 15, Miss M. S. Bonsor in the chair. The secretary, in his report, stated that membership had increased and now totalled

nearly 100. Mention was made of activities undertaken locally in connection with the Pharmacy and Poisons Bill. The treasurer's report showed a satisfactory balance in hand. Mr. E. B. Ward made an appeal for funds required to equip further the Pharmacy Department at the Leicester College of Technology; the appeal was referred to the Committee for consideration. Mr. Hearnshaw proposed a vote of thanks to the retiring officers. The following officers were appointed for the ensuing year:—*Chairman*, Mr. T. C. Peberdy; *Vice-Chairman*, Mr. C. A. Forryan; *Secretary*, Mr. F. T. Wilby; *Assistant Secretary*, Mr. C. W. Leake; *Treasurer*, Mr. G. Rimmington; *Committee*, Miss Bonsor, Messrs. Clear, Clayton, F. H. Clarke, Hackett, Ward, Spiers and Holyoak.

**Warwickshire.**—The Warwickshire Branch of the Retail Pharmacists' Union met at Leamington Spa on July 16. The action taken since last meeting in connection with the Pharmacy and Poisons Bill was reported. The question of unordered goods sent on sale or return was again before the Branch, and it was decided to continue the policy of opposition to this method of doing business. Correspondence submitted showed that a complete course of training for the Preliminary Scientific examination of the Pharmaceutical Society could now be obtained at the Coventry Technical College, and could be taken either in whole or part time. A set of draft rules for Retail Pharmacists' Union branches was submitted and delegated to a sub-committee for consideration and report to the next meeting.

## Pharmacy Relics at Auction

MANY choice mementoes of mediæval pharmacy have changed hands in the West End salerooms during the last few weeks. This was especially marked at an auction at Messrs. Sothebys, New Bond Street, when seventy-two lots of early Italian majolica and other faience realised a total of £10,752 10s.

Several lots had a pharmaceutical connection. Lot 2, a Castel Surante (Albarelo), dated 1555, inscribed "Trifera Magna," painted in bright colours, with bust of a man and trophies, sold for £20. Lot 3, a similar piece, inscribed "Confetis de Cinam," undated, 10 inches high, sold for £18. Lot 7, a fine Albarello, boldly painted with bust profiles, bearing the inscription, "Lvcrecia Tiberio," painted on the back with an owl between two trees, end of fifteenth century, sold for £70. Lots 15 and 16, Venetian drug jars, each with bust profile of a young man and a man in broad-brimmed hat, height 10½ inches, fetched £10 each. Lot 40, a Damascus wine ewer, with a pear-shaped body, painted with red, white and blue leaves on a green fish-scale ground, 10 inches high, sold for £210. Lot 48A, a faenza drug jar with globular body, painted with conventional ornaments, the head of a warrior, and the inscription "Orlando," went for £28. Lot 48C, a sienna cylindrical drug jar, painted with bust of man, fetched £62.

The "clou" of the sale proved to be Lot 19, a hanap or funnel-shaped ewer. This rare specimen of Saint Porchaire faience or Henri II ware had been cherished by various owners. Its form is that of an inverted cone supported on a low moulded foot, the handle formed by the figure of a satyr, the spout on the opposite side modelled as a lizard or salamander. The ornamentation included minutely inlaid scroll work in arabesque on a cream glazed ground. This item, 7½ inches high, was sold for £3,200. Ewers of this period in pottery, brass and silver were used as containers for rose water, wines and infusions.

THE National Union of Commercial Travellers have been informed by the Railway Clearing House that commercial travellers' overnight return tickets at single fare are, from August 1, available for the outward journey at or after 2 p.m., instead of 4.30 p.m.



# A Reconstructed Pharmacy

**T**HE oldest pharmacy in Canterbury is that of E. Bing & Son, 41 St. George's Street. Mr. Charles Bing informs us that the earliest record relates to a conveyancing indenture dated January 19, 1757. There is reason to suppose that the premises were always used as a pharmacy. The earliest known proprietor, Mr. Toovey, was followed by Mr. Lee. About 1823 the business was taken over by Mr. Sharp, the name being still connected with the business as the originator of Sharp's Cough Drops. In 1840 the business was carried on by Mr. Cowell, who was succeeded by Mr. E. Bing



in 1865. Mr. Charles Bing joined the business in 1884, and in 1895 the premises were refitted and enlarged. In July 1930, on the retirement of Mr. Bing, the pharmacy was acquired by Savory & Moore, Ltd., who have modernised and reconstructed the front by the insertion of a handsome façade in marble which adds a note of restrained dignity to the business amenities of Canterbury. The business is being carried on under its old designation of E. Bing & Son.

## Personalities

MR. ARTHUR W. NUNN, Ph.C., Crouch Street, Colchester, was on July 24 elected a town councillor for the West ward, in which a vacancy had arisen. There was no contest.

MR. T. C. FAIRWEATHER has retired from the secretarial staff of Boots Pure Drug Co., Ltd., after being in the service of Messrs. Boots since 1895. He has been presented by his colleagues with a gold watch.

MR. E. E. SMITH, chemist and druggist, who recently retired from the medical service at Holloway Prison, London, N. (C. & D., June 27, p. 772), has been presented with a grandmother chiming clock by the governor on behalf of the staff.

It is announced that Lord Dawson of Penn and Professor Edward Mellanby have been appointed members of the Medical Research Council in succession to Professor T. R. Elliott and Professor J. B. Leathes.

MISS VIOLET M. RAVENSHAW, B.A., daughter of Mr. J. Ravenshaw, chemist and druggist, Totnes, has been successful in the examination for the Cambridge Teaching Diploma. Her sister, Miss GERTRUDE H. RAVENSHAW, has obtained the B.Sc. degree of London University.

THE Dental Board of the United Kingdom has published (price 5s.) four lectures on "The Aetiology of Irregularity and Malocclusion of the Teeth," by Professor J. C. Brash. The volume, which comprises 274 pages, has numerous illustrations and a bibliography.



# Pharmaceutical Society of Great Britain

## Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on August 5, Mr. A. R. Melhuish (president) in the chair. All the members were present.

### TUESDAY'S PROCEEDINGS

Among the business dealt with at the Council meeting on August 4 were the following items:—

The secretary reported upon a meeting of the Parliamentary Committee on Food and Health which he had attended on July 14 at the House of Commons to discuss the Proprietary Medicines Bill. The meeting had been attended by a number of members of Parliament, and representatives of the British Medical Association, the Society of Medical Officers of Health, the National Association of Insurance Committees, and the County Councils Association. The outcome of the meeting had been that the Proprietary Medicines Bill, sponsored by Dr. Somerville Hastings, had been recognised as a measure upon which it would not be possible for further negotiations to take place, and it had been agreed that the Committee, in the autumn, should summon a further Conference to which the manufacturers of proprietary medicines should be invited in order to see whether some basis for an agreed measure could be found.

The PRESIDENT referred to the offer conveyed to the Council at their July meeting, by Mr. F. J. P. Gray, of Sydney, of a presidential chair to be presented to the Society by the Pharmaceutical Societies of all the Australian States. The president said that such a delightful offer could only be accepted by the Council with expressions of the most cordial appreciation. It was proposed that the chair should be made of Australian woods, and he could see that it would not only be a treasured possession of the Society, but would draw still closer together the already close ties between the pharmacists of Great Britain and those of Australia. The chair would be in a sense the nucleus of the council chamber in the Society's new building when that should be erected, and he had been delighted to hear from Mr. Gray that it was the wish of the Australian donors that the Council should take the necessary steps to design the sort of chair they would like. On the proposal of Mr. PARRY it was agreed that a committee consisting of the president, vice-president and the chairman of the Establishment Committee (Mr. A. H. Jenkin) should be appointed to take the necessary steps to prepare a design.

The report of the Law Committee stated that in England and Wales, since the last report, 871 shops had been visited; of these, 556 were chemists' shops. In six chemists' shops no certificate was exhibited. The remaining 315 shops visited were carried on by unqualified persons. At thirteen of these certain infringements of the Pharmacy Act were reported. In Scotland, since the last report, 113 chemists' shops had been visited. In all these shops certificates were exhibited.

### DEATH

On the resumption of the proceedings on August 5, the PRESIDENT said it was his sad duty to call attention to the passing of another outstanding figure in pharmacy, and a very prominent man. He referred to Mr. Yates, of Brighton, whose death would come to members, as it did to him, with a good deal of surprise and very great regret indeed. Nearly all of them had had the privilege, at some time or other, of coming across Mr. Yates, who was a man of bold and forceful spirit. They appreciated him for himself, as well as for the work which he had done. That work was not confined to pharmacy nor to the municipal affairs of Brighton, in which he took a very prominent part, having been associated with them for many years. He had served on many of the committees of the Council. He took the

greatest possible interest in the Technical Institute of Brighton. He took a very deep interest in ambulance work during the war, and was also keenly interested in pharmaceutical research. With all his preoccupation he had always maintained a very close and active association with pharmacy from his early days. In a few words he (the speaker) would describe Mr. Yates as one of those bold spirits whose passing all who were in pharmacy must deeply regret.

The Council stood in silence, and afterwards decided that suitable letters should be sent to Mr. Yates's relatives and the Brighton and Hove Association of Pharmacy.

### ELECTIONS AND REGISTRATIONS

One hundred and seventy-four persons were elected members of the Society and six persons as student-associates. A number of persons were restored to membership. The registrar reported that eighty-five persons had been registered as apprentices or students.

### HERBARIUM COMPETITION

A report on the Herbarium Competition was read from Mr. T. E. Wallis, the examiner, stating that four herbaria were entered for the competition; of these, two had been very carefully prepared.

Mr. Wallis recommended that a silver medal be awarded to Mr. Alfred Henry Shakespeare Key. A second herbarium, prepared by Dorothy Pagdin Wright, of Liverpool, was very neatly arranged in the form of a loose-leaf book. He recommended that a bronze medal be awarded to Miss Wright.

The Council decided accordingly.

The PRESIDENT proposed that thanks be tendered to Mr. Wallis for his report.

Mr. ROWSELL said the acknowledgment was richly deserved, and he hoped that the utmost publicity would be given to the report. The resolution was carried.

### SCHOLARSHIPS COMPETITION

The secretary reported that the following numbers of candidates had entered for the respective scholarship competitions:—Jacob Bell, 43; Manchester, 20; Leverhulme, 59; Devon and Cornwall, none.

The following candidates were found to have the highest marks in the respective competitions:—

*Jacob Bell Scholarship.*—Frederick Edward Read, Greenwich.

*Leverhulme Scholarships.*—(1) Philip Crees, Nottingham; (2) Hedley Wakelin Bartlett, Ealing; (3) John Charles Gage, Harringay.

The PRESIDENT said he noted with regret that there was no candidate for the Devon and Cornwall exhibition. A year ago there was one; he hoped that the competition would attract more interest in future, and suggested that their friends from the West Country would do what they could to stimulate interest in the scholarship.

Mr. ROWSELL said considerable effort had already been made to popularise the scholarship, but he hoped that the attention now drawn to it would achieve the desired end.

Mr. PARRY said it was unfortunate that they had not been able to get candidates for the Manchester scholarship, and that when these did enter they did not reach the required standard.

The SECRETARY, in reply to questions, said the minimum number of marks was 400 out of 600.

Mr. PARRY said this was a very high standard, and suggested that the Education Committee might consider the possibility of making it less difficult of attainment.

Mr. PECK: Is the standard the same for all the scholarships? I am sure Manchester would not like to



suggest that the standard should be lower than that for the other scholarships.

Mr. PARRY: It is not of the same value.

The PRESIDENT pointed out that there were eight candidates in the Jacob Bell competition and fifteen or sixteen in the Leverhulme. That did not seem to indicate that the standard was any too high, but this was a matter which they could consider at a later date. It was to be regretted that they had been for years without candidates for some of the competitions, and that now they had candidates awards were not made.

Mr. PARRY said the matter should be referred to the Education Committee.

Mr. SIMMONS said he thought the results pointed to a weakness in the training of these people, and this was a matter calling for investigation. Although the scholarship was called "Manchester," they should remember that the area included Liverpool and the Peak district, and indeed a very large area. He suggested that it should be a case of training up to that standard.

The matter was referred to the Education Committee.

#### THE CONFERENCE AT MANCHESTER

The PRESIDENT, proposing a hearty vote of thanks to those responsible for the Conference arrangements at Manchester, especially referred to the Lord Mayor and the Corporation for their civic reception. It was very difficult for him to say anything with regard to one Conference more than another, because all the Conferences in his experience—a pretty long one—had been very good, differing only in degree. But at the same time Manchester had excelled itself in the entertainment it had given to the Conference. He had never attended a Conference which he had enjoyed more, and where a greater spirit of good fellowship existed in every section. (Hear, hear.) They all felt that the smooth running of the Conference was superb. An enormous amount of work had been put into the Conference during the year. The president made particular allusion to the work of Mr. Franklin, Mr. Simmons (their Colleague on the Council) for his "push and go" in Conference matters, Mr. Edwards, the local secretary, who was a tower of strength, the local treasurer, Mr. Kerfoot, the chairman of the ladies' committee, Mrs. Woolley, who had very ably led the work of the ladies, the chairman of the sports committee, Mr. Collins, the chairman of the housing committee, Mr. Dixon, Mr. Brindle, chairman of the publications committee, Mr. Walters, chairman of the entertainment committee, and Mr. Stabler, chairman of the excursion committee. It was a memorable Conference, and would linger in the memories of those who attended it for a long time to come. He moved that the thanks of the Council be sent to the Lord Mayor and Corporation of Manchester.

The VICE-PRESIDENT seconded, and the resolution was carried with acclamation.

Mr. SIMMONS, returning thanks, expressed his gratification. The thing which, in his mind, contributed very largely to the success of the Conference was the absence of what he might term "top-table" exclusiveness. They at Manchester had made special arrangements so that visitors who seemed lonely should be made to feel at home. He paid a tribute to the work of the secretaries, for, after all, it was on them that most of the work devolved. He added that the nice weather experienced during the Conference had given the lie to the old saying, "It always rains in Manchester." (Hear, hear, and laughter.)

The PRESIDENT said he was sure the Council would wish to associate themselves with Mr. Simmons's remarks regarding the work of the secretaries.

#### EXAMINATION RESULTS

The report of the July examinations in London was submitted.

Mr. MARNS drew attention to the enormous number of failures in botany, again noticeable. They heard occasionally in speeches by past-presidents and others that sooner or later botany would cease to be a subject for examination for the chemist and druggist qualification. If that were so—and he was simply quoting the authorities—he would like to know why it was that repeatedly

in the report of the examinations the failures greatly exceeded those in subjects which they might consider much more important to the future of the pharmacist. Was it that the standard to-day was too high or that the teaching in the various institutions approved by the Council was not sufficient to give candidates the knowledge they required? Botany was a subject to which the examiners were apparently attaching too much importance altogether. He would like an assurance from the chairman of the Education Committee that something would be done to see if the failures in botany could not be brought more into line with the failures in other subjects, which they now so greatly exceeded.

The PRESIDENT assured Mr. Marns that the matter should have the attention he desired. With regard to Mr. Marns's remarks that the examiners were attaching too much importance to botany, that might not be the trouble. It might be that the teachers up and down the country were not attaching sufficient importance to the subject in the light of the Society's syllabus.

Mr. MARNS: But the schools are approved.

Mr. JACK said the fault lay with the system whereby the Society's boys were sent to ladies' schools, in which it was well known that the botany taught was what was called the "kitchen variety." (Laughter.) As a practical botanist he was ashamed of it.

Mr. PECK said it was a matter for the Education Committee to consider very carefully whether the standard of botany which the examiners were requiring was being taught in all the schools which had been approved. He could promise the Council that the Committee would look into it. Mr. Marns had mentioned that he thought it was rather too high. That question, however, was a matter not for the Education Committee, but for the Committee set up a few months ago to consider all questions relating to examinations. Mr. Marns had also said he had heard that some time botany would not be required, but there was no suggestion that it would not be included in the Preliminary Scientific examination.

The PRESIDENT said one gratifying feature was that the results showed that the pass list for the Chemist and Druggist examination was very nearly 50 per cent.

Mr. PARRY said he would like to support Mr. Peck. In his opinion the special committee should have met about the time that the examination was being conducted, as its members should have an opportunity of seeing how the examination was conducted. That Committee should be a live body, it should meet and act.

Mr. SKINNER said there was a certain lack of harmony between the teaching and the examinations.

The subject was then allowed to drop.

#### EDUCATION COMMITTEE

The report of the Education Committee showed that a number of schools had been approved for the teaching of subjects required by the Society's examinations.

Mr. MARNS asked if the schools had been inspected and by whom.

Mr. PECK said he could speak for Wisbech and March, which he had visited. Mr. Rowsell had visited the Lyme Regis institution. At Caversham, which at first was turned down because of the lack of botany equipment, the position had been remedied and the teaching was of university standard. Aldershot had been visited by the assistant secretary, and the Committee were quite satisfied that the teaching was up to standard.

Mr. SKINNER asked whether the standard referred to was the "pass" standard, or the standard expected by the examiners.

Mr. PECK said he hoped it would be the standard expected by the examiners. The report was adopted.

#### BENEVOLENT FUND COMMITTEE

The report of this Committee showed that twelve applications had been considered during the month, and grants made ranging from £5 to £30. The quarterly summary of the Committee's work showed that 35 grants aggregating a total of £754 had been made. The receipts for the same period were £924 14s. 11d. Special contributions were acknowledged as follows:—West Ham and District Association of Pharmacists



(garden fête), £60; Anonymous, £10 17s. 11d.; W. B. Cartwright, Ltd., Rawdon, £5 5s.; Williams & Peters, Kentish Town (weighing machine), £3 19s. 4d.; W. Hills, Ryde, £3 3s.; R. A. Cripps, Hove, £3 3s.; Oxford and District Branch (collected at meetings), £2 16s.; C. W. Higgins, Salisbury (weighing machine), £2 15s.; W. A. Mansbridge, Bristol (collecting box), £2 11s. 7d.; C. B. Harrison, East Sheen (weighing machine), £2 10s.; Harrogate Chemists, Ltd., £2 4s.; Wallasey Chemists' Association (annual collection), £1 16s. 6d.; J. T. Davies (Chemists), Ltd., Swansea (collecting box), £1 10s.

Mr. BILSON paid a cordial tribute to the West Ham Association for their contribution of £60, the proceeds of a garden fête, the organisation of which had been carried out under the direction of Mrs. Beardsley. It was a really splendid effort.

The PRESIDENT drew attention to the names of certain firms who sent contributions to the Fund month after month, and commended their example. The report was adopted.

#### WAR AUXILIARY BENEVOLENT FUND

The report of this Committee showed that seven applications had been considered during the month, and grants made or recommended varying from £13 to £50. The grants for the quarter numbered thirteen and totalled £243 10s.

#### AWARD OF SCHOOL PRIZES

The Establishment Committee recommended that the following prizes be awarded for the session 1930-31:—

#### CHEMIST AND DRUGGIST COURSE

*Pharmaceutical Chemistry*.—Bronze medal, Margaret A. Fry; certificate of honour (general), Veronica S. Smith; certificate of honour (practical), Donald K. Ritchings.

*Pharmacognosy*.—Bronze medal, Roderick P. Davies; certificate of honour (general), Veronica S. Smith; certificate of honour (practical), Roderick P. Davies.

*Pharmacy*.—Bronze medal, Mary K. Price; certificate of honour (general), Donald K. Ritchings; certificate of honour (practical), Margaret A. Fry and Frank R. Hughes (equal).

#### B.PHARM. AND PHARMACEUTICAL CHEMIST COURSE

*Pharmaceutical Chemistry*.—Silver medal, Horace G. Rolfe; certificate of honour (general), Frederick R. Rymer; certificate of honour (practical), Harry Noble.

*Pharmacognosy*.—Silver medal, Horace G. Rolfe; certificate of honour (general), Christopher R. Day; certificate of honour (practical), Horace G. Rolfe.

*Pharmacy*.—Silver medal, Horace G. Rolfe; certificate of honour (general), Basil W. Dewing; certificate of honour (practical), Horace G. Rolfe.

Hewlett Memorial Exhibition, Dennis A. Desmond.  
Martindale Memorial Medal, Margaret A. Fry.

#### FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £22 17s. 1d., amounted to £8,295 6s. 10d., comprising the following items:—

Subscriptions, £236 10s. 3d.; Registration Fees as Apprentice or Student, £176 8s.; Certificates of Qualification, £1 1s.; Examination Fees, £16 16s.; School of Pharmacy, University Grant, £125; Pharmacological Laboratories, £172 4s.; Penalties, £90 14s. 3d.; Interest on Investments, £614 19s. 3d.; "Pharmaceutical Journal," Advertisements, etc., £1,215 16s. 8d.; Quarterly Journal, £11 15s. 1d.; Pharmaceutical Pocket Book, £17 17s. 8d.; Register, £4; Examination Papers, £6 1s. 3d.; Pharmaceutical Press Publications, £16 1s. 7d.; B.P. Codex, 1923, £47 11s. 9d.; Forensic Pharmacy, £1 0s. 5d.; F.S.S.U., £14 15s.; Sundries, £3 17s. 7d.; Transferred from Deposit Account, £5,500.

Payments ordered at the last meeting amounted to £8,218 2s. 5d., leaving a balance of £77 4s. 5d. The balances on the other accounts were:—Benevolent Fund (current account), £29 13s. 2d.; Benevolent Fund (donation account), £23 6s. 10d.; War Auxiliary Benevolent

Fund, 1s. 6d.; Orphan Fund, £2 2s. 6d. The report recommended that accounts amounting to £13,119 2s. be paid, and that the action of the secretary in making payments amounting to £1,253 14s. 3½d. be approved. The report was adopted.

This was all the public business.

## Examination Results

The following are the results of the examination held in London during July:—

#### Pharmaceutical Chemist Qualifying Examination

The following candidates were successful:—Archer, R. H. R.; Bourdillon, Maud A.; Davis, J. S.; Day, C. R.; Dewar, T.; Dewing, B. W.; Hansen, J. W.; Johnson, Elsie W. M.; Kay, Lilian A.; Lawrence, G. W.; Lewis, Violet E.; Moore, R. V.; Noble, H.; Pond, Laura E.; Pynegar, K.; Rolfe, H. G.; Smith, J.; Widdowson, W. The number of entrants was forty, of whom ten failed, eleven were referred, and one was absent.

#### Chemist and Druggist Qualifying Examination

No.	PRELIMINARY SCIENTIFIC				CHEMIST AND DRUGGIST QUALIFYING			
	Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for Prelim. Sc. exam. ...	520	7	250	120	143	—	—	—
Referred subject in Prelim. Sc. exam. ...	146	1	—	66	79	—	—	—
Entered for C. and D. exam. ...	527	—	—	—	5	144	123	255
Referred subject in C. and D. exam. ...	31	—	—	—	2	—	11	18
	1224	8	250	186	222	7	144	134
			250	186	222		144	134
								273

Referred in one subject:—Botany, 109; Chemistry, 30; Physics, 47; Pharmacognosy, 18; Pharmacy, 36; Pharmaceutical chemistry, 69; Forensic pharmacy, 11; total, 320.

The following having satisfied the examiners in the Chemist and Druggist Qualifying examination, have been registered as chemists and druggists:—

Ashton, S. T., Ventnor  
Aspin, E., Billington  
Asquith, H., Huddersfield  
Atherton, W. J., Blackpool  
Baldwin, W. G., Barnet  
Balmforth, H., Burnley  
Barker, H., Llandudno  
Barnett, R. E., Birmingham  
Basterfield, H., Halesowen  
Bedloe, Nora, Blackheath  
Bellhouse, W. H., Leeds  
Benton, C. O. M., Norwich  
Blacklock, W. M., Ashby-de-la-Zouch  
Blunden, D. T., Basingstoke  
Boardman, G., Altrincham  
Boscow, A. N., Warrington  
Boswell, A. H., Bolton  
Bowley, B. S., Coventry  
Brady, J. J., Birmingham  
Brittain, J., Derby  
Brobyn, C. A., Cinderford  
Brockbank, H., Carlisle  
Broughton, J. J., Hull  
Brown, K. J., Great Malvern  
Burgess, R., Wallasey  
Burkitt, Mary, Croydon  
Butler, T., Liverpool  
Butt, J. T., Long Eaton  
Carroll, A., Manchester  
Chalmers, J., Malvern  
Claesson, Christina G., Bournemouth  
Clayson, Marjory, Lymington  
Clegg, W., Rochdale  
Clouting, L. W., Bath  
Cohen, S., Cardiff  
Cook, L. G., High Wycombe  
Cox, R. J., Ilkeston  
Crofts, J. E. M., Netherfield  
Crook, C. J., Torquay  
Cruse, F. H., Hampstead  
Culley, Joyce M., Wyomondham  
Davey, J. E., Littleton  
Davies, C. N., Merton  
Davies, E. N., Dudley  
Davies, H. W., Swansea  
Davies, I. P., Cheltenham



- Davies, R. P., West Kensington  
 Davies, T. F., Chester  
 Davis, R. P., Grantham  
 Des Forges, C., Hucknall  
 Dow, C. G. M., Wooburn Green  
 Downing, F. R., Portsmouth  
 Doyle, P., Blackburn  
 Dredge, B. E., Weston-super-Mare  
 Dunlop, J. B., Stalybridge  
 Durant, W. E., Lytham  
 Dyer, D. H., Sandown  
 Eastwood, L. T., Portsmouth  
 Edwards, K. W. T., Minehead  
 Emslie, R. H., Frinton  
 Evans, E. L., Portmadoc  
 Evans, W., Paddington  
 Feaver, E. J., Bristol  
 Feil, A., Manchester  
 Ferris, W. P., Paignton  
 Finch, F. R., Brockley  
 Firth, W., Nuneaton  
 Fleetwood, F., Seaforth  
 Fleming, R. H., Fareham  
 Foster, R. P., Chorley  
 Foulds, H., Southport  
 Frost, E. G., Liverpool  
 Fry, Margaret A., Croxley Green  
 Gadsden, C. C., Bourne-mouth  
 Gardiner, A. L., Lewisham  
 Garland, T. F., Bristol  
 Garraway, A. G. T., King's Stanley  
 Garraway, V. C. W., Stroud  
 Gelb, L., Cape Town  
 Gibson, A., Luddenden Foot  
 Gilbert, W. J., Redruth  
 Glousman, V., Golders Green  
 Godfrey, Marjorie, Hull  
 Gough, H. A. R., Rotherham  
 Greatrex, B. J., Pentre  
 Greenberg, M. I., Manchester  
 Greer, J. A., St. Helens  
 Griffiths, A., Aberavon  
 Gwynne, B. L., Cardigan  
 Haggard, L. J., Rugby  
 Haley, E., Morecambe  
 Hall, A. T., Bournville  
 Hall, H., Sheffield  
 Hallett, F. N., Bristol  
 Harland, H., Barnard Castle  
 Harley, F., Stafford  
 Harley, W. L., Plymouth  
 Harman, Daisy D., Brighton  
 Harrop, M. B., Hawarden  
 Hart, E. L., Chester  
 Hatfield, H. V., Parkstone  
 Hawkins, L. A., Taunton  
 Head, A. R. P., Plymouth  
 Head, Kathleen E., Bridgnorth  
 Heather, J. R., Brighton  
 Heaton, C., Wallasey  
 Heeley, F., Sheffield  
 Hewitt, J. W., King's Lynn  
 Higginbottom, W., Walkden  
 Hiley, C. W., Lincoln  
 Hives, W. T. L., Southport  
 Hobson, G. C., Chapel-en-le-Frith  
 Howard, P. S., Dover  
 Howson, W., Manor Park  
 Hughes, R. A., Colwyn Bay  
 Hume, L., Stockwell  
 Hutchinson, E. S., Mansfield  
 Irving, W. R. G., Bristol  
 Isaac, L. R., Cardiff  
 Jackson, J. R., Burton-on-Trent  
 Jaffe, E. I., Ilford  
 James, G., Bermondsey  
 James, J. R., Hammer-smith  
 Jefferson, G. C., Rotherham  
 Jewry, C. F., Sherborne  
 John, W. G., Aberdare  
 Johnson, Eileen H., South Woodford  
 Johnson, S. C., Wigan  
 Jones, Alice, Mold  
 Jones, E. W., Beaufort  
 Jones, G. H., Pembroke Dock  
 Jones, J. E., Tonypandy  
 Jones, J. H., Rhymney  
 Jones, T. S., Abergyle  
 Kenward, L. A., Coventry  
 Kime, S. H., Manchester  
 Knapp, S. G., Ealing  
 Lane, Ivy I., Ashton-in-Makerfield  
 Lang, F. D., Lowestoft  
 Large, A. G., Thetford  
 Lea, W., Witney  
 Leaversuch, C. W., Weedon  
 Lee, J. A., Slough  
 Lewis, Edith R., Swansea  
 Lewis, J. A., Port Talbot  
 Lillistone, F. A., Buckingham  
 Livett, R. A., Plumstead  
 Lomas, H. A., Sheffield  
 Lomas, L. G., Sheffield  
 Lord, R. W., Edenfield  
 Loveday, A. E., Norwich  
 Lumley, R., Birmingham  
 Lustgarten, N., Rhyl  
 Macself, A. H., Reading  
 Mann, E. H., Wetherby  
 Mansbridge, T., Bristol  
 Marsden, D., Sheffield  
 Martin, Beatrice, Plymouth  
 Martin, K. J., Brockenhurst  
 Mason, Marjorie, Nottingham  
 Mawson, R. S. G., Winccombe  
 Mawson, S., Manchester  
 Megson, J., Beverley  
 Melnik, Esther P., Clapton  
 Miller, B. G., Battersea  
 Milner, W. J. H., Conway  
 Miners, J. H., Marazion  
 Mitchinson, J. B. J., Guildford  
 Moffatt, T., Middlesbrough  
 Monk, A. A., Blackburn  
 Moorhouse, S., Oldham  
 Morgan, T. R., Pontardawe  
 Morris, W. H. H., Aberdare  
 Moshewitz, Olga, Bow  
 Naylor, H., Heywood  
 Newman, V., Brighton  
 Newton, J. F. G., Southampton  
 Nightingale, R. K., Cambridge  
 Nind, F. M., Walsall  
 Norman, C., Market Harborough  
 Norton, R. S., Tunbridge Wells  
 Oliver, L. B., Kegworth  
 Osborne, L. L., Liverpool  
 Oswald, W. G., Sheffield  
 Palfreyman, A. L., East Dulwich  
 Palmer, E. H., Leicester  
 Palmer, T. E., Kidderminster  
 Parkes, L. W., Wolverhampton  
 Parkinson, C. A., Manchester  
 Parkinson, J. E. J., Lancaster  
 Pateman, J. F., Leicester  
 Payne, H. W., Cromer  
 Peacock, V. W. M., Leicester  
 Pearce, A. E., Sittingbourne  
 Pearce, N. B., Ipswich  
 Pelham, F., Colne  
 Philpot, E. H., Portsmouth  
 Pollard, E. H., Harrogate  
 Poole, H. B., Birmingham  
 Powlson, S., Southwark  
 Price, Mary K., Presteigne  
 Pritchard, J. L., Bangor  
 Purser, E. E., Bedford  
 Redfern, W., Sheffield  
 Reed, K. E., Letchworth  
 Richardson, B. J., Freshwater Bay  
 Richardson, J., Forest Gate  
 Riches, S. W., Stalham  
 Ridehalgh, H., Great Harwood  
 Ritchings, D. K., Sheffield  
 Robinson, F. O., Melton Mowbray  
 Rogers, F., Bromley  
 Roland, John I., Whitechapel  
 Rose, E. H., Leamington Spa  
 Rothwell, Sybil, Hoylelake  
 Roundell, G., Heywood  
 Rubin, B., Liverpool  
 Rutter, J. S., Tooting  
 Sachs, Flora E., Ealing  
 Sale, G. A., Wombwell  
 Scantlebury, S. A., Bristol  
 Sefton, B. W., Prestwich  
 Sely, S. H., Clapham  
 Shaw, L., Hull  
 Shepherd, A. G., Coleford  
 Shore, H. J., Birmingham  
 Skinner, J. A., Cambridge  
 Slater, C. C., Nelson  
 Smith, Sarah D., Bury  
 Smithson, F., Harrogate  
 Sorrell, E. P., Pembury  
 Southcott, H. P., Lelant  
 Stephens, J. W., Abermule  
 Sugden, Muriel L., Streatham  
 Sugden, Phyllis M., Streatham  
 Sutton, F. B., Stockport  
 Sutton, K. M., Scarborough  
 Swann, M. A., Rugby  
 Taylor, E. T., Glastonbury  
 Thomas, D. L., Cardigan  
 Thorne, Ruby L., Godalming  
 Tooze, C. S., Wellington  
 Tunley, J. L., Liverpool  
 Turner, C. A. M., Lydney  
 Turner, W. H., Warrington  
 Underhill, Irene M., Margate  
 Wakefield, J. J. R., Penrith  
 Wale, G. J., Acton  
 Walker, T., Nottingham  
 Wall, W. E., Campden  
 Watsham, A. A., Horsham  
 Watson, F. W., Norwich  
 Weare, W. A., Coddorf  
 Webster, T. W., Sheffield  
 Wellington, A. J., Plymouth  
 Whitaker, Kathleen C., Foxdale  
 White, B. R., Stockport  
 White, P. J., New Barnet  
 White, R. E., Birmingham  
 Wilcock, J., Brinscall  
 Wilkins, C. M., Long Eaton  
 Willey, S. G., Ramsgate  
 Williams, J. C., Llangollen  
 Williams, S., Wolverhampton  
 Williams, W. E. T., Aberdovey  
 Winder, C. E., St. Helens  
 Wissett, J. L., Wallasey  
 Wixley, J. W. A., Nottingham  
 Woodings, F. W. H., Liverpool  
 Woods, A. W., Twickenham  
 Yarrell, L. J., Devonport  
 Young, C. B., Whitley Bay  
 Young, K. F., Southampton

PROTECTING WILD PLANTS.—The formation of the Wild Plant Conservation Board for the study, preservation and protection of British wild plants is announced. It is stated that the Board is in touch with the Royal Botanic Gardens, Kew, and the Home Office, and that it will co-ordinate the activities of various bodies already in existence with similar objects.



  
**THE CHEMIST AND DRUGGIST**  
 ESTAB. 1829  
**RETAIL & DISPENSING**  
**PRICE LIST**  
 based on definite costing principles  
 ISSUED QUARTERLY TENTH YEAR OF PUBLICATION

An advance in the price of bismuth has caused a slight change in the drug index—from 126.5 to 126.9. There was no change in the surgical dressings index, which remains at 158.6. Various prices were altered sufficiently to cause a readjustment in selling and dispensing prices, and the important ones are set out below:—

Cost			Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
27	oz.	Adrephine (P.D.) ..	—	—	3 0	—
24	lb.	Glyc. acidi borici ..	4 0	1 2	—	—
24	lb.	Glyc. aluminis ..	—	1 2	0 4	—
12	lb.	Glycyrrhizæ radici pulvis	1 6	0 6	0 2	—
10	lb.	Glycyrrhizæ radici pulvis (crs.) ..	1 3	0 5	—	—
560	cwt.	Glycyrrhizæ radici pulvis (crs.) ..	7 lb.	4 2	14 lb.	7 9
138	lb.	Hyd. bisulph. (vermilion)	17 3	5 0	1 5	—
114	lb.	Hydrargyrum ..	14 3	4 1	1 1	—
180	lb.	Ipecac. rad. (Rio) pulvis	—	6 5	1 11	—
60	lb.	Lin. potassii iodidi c. sapone ..	—	2 2	0 8	—
72	lb.	Macis opt. ..	9 0	2 7	0 9	—
51	lb.	Macis opt. parv. ..	6 6	1 11	0 7	—
60	lb.	Macidis pulvis opt. ..	7 6	2 2	0 8	—
16	oz.	Ol. sabinæ ..	—	—	—	0 4
90	dr.	Santoninum ..	per	gr.	0 3	13 6
11	10	Tab. ephedrinæ sulph. (P., D. & Co.) $\frac{1}{2}$ gr. ..	1 3	—	—	—
7	6	Tab. ephedrinæ sulph. (P., D. & Co.) $\frac{1}{2}$ gr. ..	0 9	—	—	—
48	100	Tab. ephedrinæ sulph. (P., D. & Co.) $\frac{1}{2}$ gr. ..	5 4	—	—	—
189	12 vials	Ventriculin, P., D. & Co.	12	vials	21 0	—

## Trade Notes

COW & GATE, LTD., Guildford, give some particulars of their newest products elsewhere in this issue.

VIGGORMALT, LTD., Davigdor Road, Hove, Brighton, invite chemists to write for full particulars regarding Viggormalt, a concentrated extract of malt and hops for making home-brewed beer.

LACARNOL.—Bayer Products, Ltd., 19 St. Dunstan's Hill, London, E.C.3, have placed on the market under the name of Lacarnol a nucleosidic preparation of the muscle tissues which has been found to exert a selective dilator action on the coronary arteries. Its use is therefore indicated primarily in angina pectoris and such vascular diseases as are due to spasm of the arteries. Lacarnol is issued in drop-bottles containing 20 c.c. and in ampoules of 1 c.c. in boxes of five.

LIQUORICE JUICE.—MacAndrews & Forbes, Ltd., Bush House, London, W.C.2, draw attention, in our advertisement pages, to the new combined 1-oz. and 2-oz. Apollo liquorice sticks. The sticks are made in 2-oz. lengths, with the brand stamped at each end and a division in the centre, which enables them to be easily broken. The new season's manufacture of Apollo has

arrived packed in the usual corrugated cardboard cartons, and orders are being booked for present and forward delivery.

RUBBER PRODUCTS.—St. Helens Cable & Rubber Co., Ltd., Slough, call attention, elsewhere in this issue, to a selection of rubber products, including the Elastrong



hot water bottle (illustrated herewith). This high-quality bottle is of modern design and is available in a range of colours. Chemists are invited to write for details.

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1931, p. 345.

(From "The Trade Marks Journal," July 15, 1931.)

"FLODIA"; for all goods (48). By Howards & Sons, Ltd., Uphall Road, Ilford, Essex. 523,663.

"TUSSY"; for all goods (48). By J. Lesquendieu, 5 Bis rue de la Tacherie, Paris, France. 523,029.

(From "The Trade Marks Journal," July 22, 1931.)

"PERMO"; for water softening chemicals, etc. (1). By United Water Softeners, Ltd., Aldwych House, Aldwych, London, W.C.2. 508,790.

"SYCLAPON"; for solvents (1). By The Sandoz Chemical Co., Ltd., 152 Canal Road, Bradford, Yorkshire. 521,690. (Associated.)

"SWAPP"; for fly gum and fly paper (2). By Pyramiden-Fliegenfängerfabrik Max Danietz m.b.H., 40 Altenburger Strasse, Zeitz, Germany. 523,144

"GREENGLIDE"; for chemicals (2). By W. J. Craven & Co., Ltd., 48 and 50 Port Street, Evesham. 523,450.

"DUR-O-PINE"; for disinfectants containing pine extracts (2). By H. B. Hughes, 33 Dukes Avenue, New Malden, Surrey. 523,501.

"DEOGERM"; for germicides (2). By T. I. Beale, 23 Richmond Road, Chorlton-eum-Hardy, Manchester. 523,710.

"GERMOL" on design of hand holding a container and sliding stick with the words "press upwards" (device disclaimed); for all goods (3). By Veno Drug Co. (1925), Ltd., Veno Buildings, Chester Road, Manchester. 520,441. (Associated.)

"INFLUBAN"; for catarrh and influenza inhalants (3). By Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. 522,385.

"PEONY"; for milk preparations (42). By American Milk Products Corporation, 71 Hudson Street, New York. U.S.A. 514,353.

"MILKAZAN"; for infants and invalids food (3). By Approved Prescription Services, Ltd., 16 Lansdowne Place, Bradford, Yorks. 523,719.

"LAXCASTO"; for medicinal chemicals (3). By H. B. Sleeman & Co., Ltd., 84 Leadenhall Street, London, E.C.3. 523,673.



## Births

Notices for insertion in this column must be properly authenticated.

**BRAND.**—At The Pharmacy, Thane, Oxon, on August 2, Isabel Gertrude (*née* Coomber), the wife of Robert J. Brand, M.P.S., of a daughter.

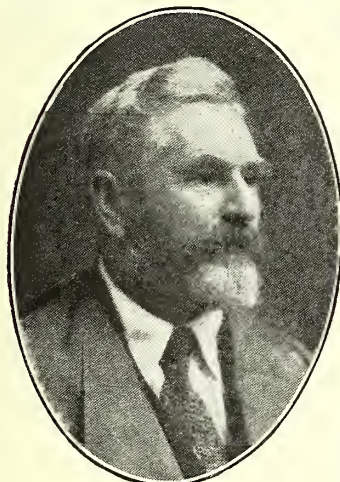
## Marriages

**KEMPLAY—DAWSON.**—At Hendon Parish Church, London, N.W., on July 11, Cyril Kemplay, chemist and druggist, Hendon, to Mary, daughter of Mr. T. H. H. Dawson, Keighley.

**SMITH—SIMMONS.**—At St. Mark's Church, Worsley, Manchester, on July 29, Henry Charles Smith, M.B., Ch.B., Hyde, to Dorothy Simmons, M.B., Ch.B., elder daughter of Mr. E. H. Simmons (member of the Council of the Pharmaceutical Society), 329 and 331 Chapel Street, Salford.

## Deaths

**YATES.**—At 9 Upper-Hamilton Road, Brighton, on July 30, Councillor Charles George Yates, chemist and druggist. Mr. Yates



MR. C. G. YATES

qualified in 1891, and commenced business in Brighton two years later. Endowed with a robust and genial outlook on life, he was an adviser and friend for his whole neighbourhood. Mr. Yates commenced public life in connection with a rate-payers' association; he was elected to the Borough Council in 1903, continuing as a member, with the exception of a short interval, until the time of his death, and serving the town faithfully. He was never afraid to voice an unpopular opinion; he always had the courage of his convictions, and these were full of sound common sense. His aptitude for public administration was made good use of by the Council. He was chairman of most of the committees in turn, but his greatest work was as chairman of the Tramways Committee, in which position he served for many years. On the day of his death he was to have spoken for the Tramways Committee on their latest proposal to run municipal buses. Soon after the commencement of the war Mr. Yates took up St. John Ambulance work, organising a brigade. He continued as commandant until two years ago, when ill health made his resignation inevitable. During the war the brigade conveyed over 35,000 casualties to Brighton Station, and many of the wounded still remember the cheery greeting given to them by the commandant, who personally met every convoy. Mr. Yates was married in 1928, leaving the hospital after a severe operation, and travelling to the church in an ambulance. The services that Mr. Yates rendered to pharmacy were many. He was one of the originators of the Junior Pharmacy Association, which was in turn absorbed in the Brighton and Hove Association. After some years' service as secretary of the senior body, he was elected vice-president in 1906, and in 1915 followed the late Mr. W. H. Gibson in the presidential chair. A member of

the local Insurance Committee since its formation in 1912, he served as chairman from 1921 till the time of his death. Mr. Yates took a keen interest in the ex-Service pharmacy students, and was chairman of the pharmacy advisory committee attached to the Technical College, attending a meeting as recently as a week before the end. The interment took place on August 1, following a service in the Parish Church. The Borough Council and St. John Ambulance Brigade attended in full, together with most of the town officials and representatives of many public bodies. The trams flew pennants at half-mast, and those passed by the *cortège* on the way to the cemetery came to a standstill. Among those present at the church were Mr. H. B. Mackie, president of the Brighton, Hove and District Branch of the Pharmaceutical Society, with Messrs. C. S. Ashton, E. Beckwith, F. W. Burgess, J. A. Dyson, A. J. Franklin, H. R. Gwatkin, Edgar Jones, K. J. Padwick, J. Plowright, G. B. Savage, and J. E. Vickers, and the floral tributes included a wreath from the Branch.

**BALES.**—Recently Mr. Frederick Bales, managing director of Fisher & Co. (Norwich), Ltd., 14 Calvert Street, Norwich, aged eighty-eight. Mr. Bales was a commercial traveller for nearly fifty years, and at the age of seventy-seven became managing director of Messrs. Fisher & Co.

**CRASKE.**—At Holt, on July 27, Mr. Thomas Augustus Craske, retired chemist and druggist, aged seventy-seven. Mr. Craske's father commenced business in Holt in 1837, and was succeeded by his son. Mr. Craske was keenly interested in music, and was organist of the Congregational Church at Briston for over forty years. He was also a member of the Parish Council, and took much interest in Holt Literary Institute.

**MCMILLAN.**—At Benvarren, 22 Carrick Road, Ayr, on August 2, Agnes Kennedy Jackson, beloved wife of Mr. James M. McMillan, chemist and druggist.

**MORRISON.**—At "Birkwood," Whitaker Road, Derby, on August 1, Mr. Edward Morrison, representative of T. & H. Smith, Ltd., manufacturing chemists, Edinburgh, Glasgow and London, aged sixty-nine.

**TOTHILL.**—At the Alpha Nursing Home, Green Point, Cape Town, on July 2, Mr. Alfred E. A. Tothill, the oldest-established Cape pharmacist, aged seventy-one. Mr. Tothill purchased the Swan Pharmacy in 1880 from the late Mr. C. H. Bosenberg, who had established the business in 1830. In his younger days he was well known in politics, but in later life he devoted himself exclusively to his business. Of a generous disposition, he was widely known among the poor of the Western Province as friend and counsellor. The cremation took place at Johannesburg. Mr. Tothill leaves a widow and seven children.

**TROUP.**—At a nursing home in Aberdeen, on January 30, Mr. William Troup, chemist and druggist, Rhynie, aged seventy-three. Mr. Troup, who was a partner in the firm of William Troup & Sons, had been in failing health for some time. As a young man he spent several years abroad. Mr. Troup was held in high esteem by a wide circle of friends.

## Wills

**MR. EVAN JENKINS, J.P.**, of 48 Mall Avenue, Faversham, Kent, chemist and druggist, on two occasions Mayor of Faversham, who died on March 6, left estate of the gross value of £12,733 7s. 10d., net personalty £8,447 18s. 11d.

**LORD MELCHETT, P.C., F.R.S.**, Melchet Court, Hampshire, who died on December 27, 1930, left estate of the gross value of just over £1,000,000, with net personalty just under £200,000. These figures do not include land owned by the late Lord Melchett in Palestine or that part of his collection of pictures, statuary and other works of art which are exempt from duty as being of national interest and importance.





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## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

D/58. Alpaca cream  
B/48. Bertrand's anti-rheu-  
matic vaccines  
M/307. Bismoid suppositories  
H/48. Casinova cream  
L/297. Centitest litmus papers  
B/307. Cortivalle tablets

B/48. Ferriglandin tablets  
E/58. Genie Wren soap  
B/317. Hormogen  
R/207. Kaislerling  
M/58. Keen's Peroxol nail  
polish



# The CHEMIST AND DRUGGIST

VOL. CXV AUGUST 8, 1931 NO. 2687

## The Trend of Invention

A NOTABLE feature of invention during recent years has been the great activity manifest in connection with the chemical and electrical industries. In the year 1930 (for which particulars are now available in the annual report of the Comptroller-General of Patents, Designs and Trade Marks, Stationery Office, 4d.) this activity was fully maintained. In chemistry, the report states, marked progress is being made in the production and application of cellulose, particularly cellulose esters. Paints, varnishes, adhesives and other coatings are being made from cellulose esters and artificial resins, and particular groups of these resins are being developed for electrical insulation and for use as dielectrics; among dyes, particular attention is being devoted to the anthraquinone vat dyes. The production of alcohol from wood cellulose by hydrolysis and fermentation, the preparation of artificial rubber and the destructive hydrogenation of carbonaceous substances are still being actively developed. A paragraph dealing with the electrical industry announces that "the boom in ultra-violet ray lamps for therapeutic purposes has not been maintained." From a table showing the general business of the Patent Office compared with that of the previous ten years, it appears that the number of patents sealed has increased from 14,191 in 1920 to 20,765 in 1930; designs registered from 13,071 to 20,169 over the same period; trade marks remain fairly steady. The number of readers who made use of the free library was 135,384, as compared with 130,228 in 1929. The number of volumes added to the library was 6,880, of which 1,283 were volumes of patent specifications and patent and trade-mark journals, and 812 were trade catalogues. The remaining 4,785 volumes were scientific text-books, pamphlets and periodicals, 2,121 being obtained by purchase and 2,664 by gift or exchange. The number of works in the library at the end of the year was 69,657, and the approximate number of volumes (exclusive of duplicates) was 238,976. Appendix A of the report (receipts and expenditure for the year) shows that patent fees totalled £498,908; designs fees, £10,820 15s. 6d.; trade-mark fees, £43,574 15s.; miscellaneous fees, £22 1s. 9d.; sale of publications and photographic copies, £43,149 0s. 5d.; total receipts, £596,474 16s. 3d. Expenditure (including £292,854 4s. 6d. for salaries) amounted to £441,929 17s. Among the trade marks advertised and registered in the fifty classes in 1929 and 1930 we have extracted the following:—

Class	Classification of goods	1929		1930	
		Advertised	Registered	Advertised	Registered
1	Chemical substances used in manufactures, etc. . .	312	287	316	282
2	Chemical substances used in agriculture, etc. . .	145	120	117	103
3	Chemical substances for use in medicine, etc. . .	379	348	406	372
4	Raw vegetable, etc., substances . . .	140	123	146	143
11	Surgical, etc., instruments . .	95	98	70	61
47	Candles, detergents, oils, matches, starch, etc. . .	255	235	187	172
48	Perfumery, etc. . .	221	225	205	172

The Committee appointed by the Board of Trade (C. & D., 1929, I, 621) to report whether any, and if

so what, amendments in the Patents and Designs Acts, or changes in the practice of the Patent Office are desirable, has completed its work and made its report, which has been published (C. & D., April 18, p. 458).

## The Lame Dog and the Stile

A POINT of some importance in connection with panel practice is discussed in "The Lancet" of July 25. The question raised is: "If the Home Office withdraws a medical practitioner's authority to possess or prescribe certain drugs under the Dangerous Drugs Regulations, is he thereby prevented from giving efficient medical service to insured persons?" A committee of inquiry set up in a particular case by the Middlesex Insurance Committee has answered in the negative, and the Ministry of Health has approved the committee's decision. It was held that as the respondent practitioner "could still lawfully prescribe weaker percentages of morphine and cocaine than those specified in the Home Office order, he could manage for all practical purposes to carry out the duties of panel practice;" and we may add that this ruling obviously applies, though the fact is not mentioned by "The Lancet," to the five exempted preparations of heroin. As to medicinal opium and its preparations, "the respondent practitioner would be able to supply or prescribe these substances by a judicious use of the fifteen preparations of opium exempted from the Regulations . . ." There remains the question of hypodermic injections containing "dangerous" drugs.

"The necessity to administer morphine in this way, say the inquiry committee, is rare, and, perhaps, might not occur in ordinary insurance practice oftener than five or six times a year; but it is of vital importance. The only way of circumventing this obstacle, they conclude, is for the restricted practitioner to call in the assistance of a medical colleague who is not under a similar disability."

A pronouncement of this kind implies a somewhat more extensible definition of "the provision of proper and sufficient medicines" than most people had formulated, and probably also a high average of medical proficiency in mental arithmetic. It only remains to inquire whether a similar withdrawal of authority from a pharmacist owning a retail business, or more than one, is officially regarded as seriously curtailing his efficiency as a dispenser of National Health Insurance prescriptions. Do, in such a case, the medical men of his insurance area make a friendly agreement to prescribe a diluted tincture of opium, diluted solutions of morphine salts and other galenicals in like proportion, so that he can triumphantly present an unruffled countenance to the world? We wonder.

## "Tuning Up"

THE current issue of the "Archives of Medical Hydrology" contains an account of a series of lectures given at Wiesbaden, and now available in book form, on the principles of alteration or modification of physiological processes regarded as a definite form of medical treatment. At the end of the review Lander Brunton's definition of alterative remedies (1910) is quoted by way of comparison: "Medicines which gradually restore the nutrition of the body to a healthy condition. . . . They seem to exert their action upon assimilation and tissue change . . . possibly by modifying the activity of ferments or by altering the susceptibility of the tissues to their action." The present advocacy of what is called alterant treatment denotes something more than a swing of the pendulum away from the modern emphasis on specific treatment, although the lectures admit that "the chain of causation . . . is scarcely open as yet to experimental demonstration." Briefly, it may be indicated that modern research in physiology and pathology has suggested new ideas as to increasing resistance to the onset of disease and guiding the functioning of the patient's own resources when attacked. It will be of interest to observe what changes a fresh zeal for an alterant therapeutics may bring about in prescribing.



# Pharmacopœia Commission

## SECOND REPORT OF THE PHARMACY SUBCOMMITTEE

The following is an abridgment of the second report of the Pharmacy Subcommittee submitted to the Pharmacopœia Commission of the General Medical Council in continuation of the work printed in full in THE CHEMIST AND DRUGGIST, 1930, II, 523-27, 589-92. As in the case of the first report, the Commission invite criticisms and suggestions from medical practitioners, pharmacists and others interested; and careful consideration will be given to such criticisms and suggestions.

(Concluded from the C. & D., August 1, p. 161.)

### Syrups

SYRUPUS FERRI PHOSPHATIS COMPOSITUS. SYNONYMS: PARRISH'S FOOD; PARRISH'S SYRUP; CHEMICAL FOOD.

Compound Syrup of Ferrous Phosphate contains in 100 millilitres iron equivalent to 0.9 gram  $\pm 0.05$  of anhydrous ferrous phosphate and calcium equivalent to 1.38 grams  $\pm 0.07$  of tricalcium phosphate:—

Iron .. .. .	4.3 grams
Phosphoric acid .. .. .	55.0 millilitres
Calcium carbonate .. .. .	13.6 grams
Potassium bicarbonate .. .. .	1.0 gram
Sodium phosphate .. .. .	1.0 gram
Cochineal .. .. .	3.4 grams
Sucrose .. .. .	700.0 grams
Orange-flower water, of commerce, undiluted .. .. .	50.0 millilitres
Distilled water, sufficient to produce	1,000.0 millilitres

Dilute 20 millilitres of the phosphoric acid with 25 millilitres of distilled water in a small flask; add the iron and heat very gently on a water bath until dissolved; add the resulting solution to the calcium carbonate, potassium bicarbonate and sodium phosphate previously triturated with the remainder of the phosphoric acid and 80 millilitres of distilled water. Boil the cochineal with 375 millilitres of distilled water for fifteen minutes, allow to cool, filter, and pour over the filter a sufficient quantity of distilled water to produce 350 millilitres of filtrate; dissolve the sucrose in this filtrate by the aid of heat; strain, and cool. Filter into this syrup the solution containing the iron phosphate, calcium phosphate, potassium phosphate and sodium phosphate, add the orange-flower water and pass sufficient distilled water through the filter to produce the required volume. Allow to stand for at least forty-eight hours; filter if necessary.

SYRUPUS FERRI PHOSPHATIS CUM QUININA ET STRYCHNINA. SYNONYM: EASTON'S SYRUP

Syrup of Ferrous Phosphate with Quinine and Strychnine contains in 100 millilitres the equivalent of 1.8

gram  $\pm 0.18$  of anhydrous ferrous phosphate, 1.48 gram  $\pm 0.148$  of quinine sulphate and 0.03 gram  $\pm 0.003$  of strychnine hydrochloride:—

Iron .. .. .	8.6 grams
Phosphoric acid .. .. .	46.5 millilitres
Strychnine hydrochloride .. .. .	0.3 gram
Quinine sulphate .. .. .	14.8 grams
Syrup .. .. .	560.0 millilitres
Glycerin .. .. .	140.0 millilitres
Distilled water, sufficient to produce	1,000.0 millilitres

Dilute the phosphoric acid with an equal volume of distilled water in a small flask; add the iron and heat on a water bath until dissolved; add the solution to the strychnine hydrochloride and the quinine sulphate previously triturated with 30 millilitres of distilled water; when solution is complete make up to 250 millilitres with distilled water; filter into the syrup and glycerin, previously mixed, and pass sufficient distilled water through the filter to produce the required volume.

NOTE.—The Phosphoric Acid of the new Pharmacopœia is the acid having a specific gravity of 1.75.

SYRUPUS SENNÆ.—The Subcommittee recommend the following formula in which the Liquid Extract of Senna, described in the first report, is used:—

Liquid extract of senna .. .. .	250.0 millilitres
Oil of coriander .. .. .	1.5 millilitres
Sucrose .. .. .	700.0 grams
Distilled water, sufficient to produce	1,000.0 millilitres

Mix the oil of coriander and the liquid extract of senna and gradually add 300 millilitres of distilled water. Shake thoroughly, allow to stand in a cool place for twenty-four hours, filter, and pour sufficient distilled water over the filter to produce 550 millilitres of filtrate. Dissolve the sucrose in the filtrate, and add sufficient distilled water to produce the required volume. Mix well and strain.

### Tincture

TINCTURA STRAMONII.—The formula of the present Pharmacopœia should be included and a standard for alkaloidal content added.

## REPORT ON AMPOULE GLASS

The Subcommittee on Ampoule Glass has presented a report, of which the following is an abstract, with the object of securing criticisms of the proposed tests.

THE report opens with a reference to existing tests for alkalinity in glass in the German and Dutch Pharmacopœias and the United States National Formulary. It proceeds to describe tests on the intact ampoule carried out by Messrs. T. T. Cocking and N. Evers. The next section gives tabulated details of results obtained on ten samples of powdered glass with a test devised by Professor W. E. S. Turner, carried out by him and by Messrs. T. T. Cocking, N. Evers, F. H. Lees, J. R. Nicholls and Dr. F. L. Pyman. On the basis of these results the Subcommittee decided to recommend the following two tests for ampoules or similar containers of 0.5-25.0 millilitre capacity:—

### 1. TEST TO BE APPLIED TO GLASS WHEN CRUSHED

#### (a) Testing of Apparatus.

A test solution consisting of 100 millilitres of water, 0.4 millilitre  $N/100$  HCl, and 0.4 millilitres of strong solution of methyl red is boiled for a few minutes in a vessel of resistant glass, and while boiling transferred to a conical flask of resistant glass of 250 millilitres capacity. The flask is fitted with a reflux condenser or alternatively with a condensing apparatus made of resistant glass. Such an apparatus can be assembled as follows: A short wide tube of resistant glass, closed at one end, is suspended from the flange of the conical flask, so as to hang well above the acid solution (a



figure is given). A bung, carrying two narrow glass tubes bent at right angles above, is fitted into the wide tube, one of the narrow tubes reaching to the bottom of the wide one, the other passing just through the bung. The longer tube is connected to a cold water supply so as to ensure a liberal flow of cold water through the suspended tube, which acts as a condenser.

The conical flask, fitted with the condenser, is quickly placed in a bath of boiling water so that the contained solution is below water-level. Boiling is continued for one hour. At the end of this period the red colour of the solution should remain unchanged. If any change takes place the flask and the condenser are unsuitable for the test. The test solution is poured away.

#### (b) Testing of Glass.

The glass is ground and sieved well, the particles which pass a No. 25 sieve, but lie on a No. 36 sieve, being retained. Five grams of the sieved glass are washed free from dust by repeated washings with alcohol (95 per cent.) in a suitable small conical flask, and dried at 100°.

The sieved glass is placed with 100 millilitres of a fresh portion of the test solution described above into the conical flask, and the procedure is repeated, except that the boiling is continued for half an hour instead of an hour. At the end of this period the colour of the test solution should not have changed from pink to the full yellow colour of methyl red as indicated by comparison with a solution prepared by making 10 millilitres of the test solution alkaline with 0.1 millilitre of *N*/10 sodium hydroxide.

### 2. TEST ON WHOLE AMPOULES

Not less than six ampoules should be used, and every ampoule should comply with the test.

Fill the ampoules to their prescribed capacity with acid solution of methyl red, seal by means of a blow pipe, and heat in steam at a pressure of 15 lb. per sq. in. for half an hour. Cool, and examine the colour of the solution. If necessary, when the ampoules are of coloured glass, the solution may be removed for examination on to a thoroughly washed white glazed tile. The colour of the solution should not have changed from pink to the full yellow colour of methyl red as indicated by comparison with a solution prepared by making 10 millilitres of the acid solution of methyl red alkaline with 0.1 millilitre of *N*/10 sodium hydroxide.

**Caution.**—Ampoules which pass the test on whole ampoules at one time may not pass this test after storage. Whenever possible the test is to be carried out not more than fourteen days before the ampoule is used. If ampoules which have been stored do not pass the test, they may be resubmitted to the test after being washed internally with a 5-per-cent. v/v solution of acetic acid followed by three washings with water; provided that every ampoule of a batch which then passes the test is washed in the same way before being filled with the medicament.

#### Acid Solution of Methyl Red

<i>N</i> /50 hydrochloric acid .. ..	8.3 millilitres
Strong solution of methyl red .. ..	20.0 millilitres
Distilled water to .. ..	1,000.0 millilitres

**Strong Solution of Methyl Red.**—Dissolve 0.04 gram of methyl red in 50 millilitres of alcohol (95 per cent.), add 1.5 millilitres of *N*/20 sodium hydroxide, or a sufficient quantity to ensure that the colour of the solution corresponds to a PH of about 5.2, and dilute to 100 millilitres with water.

The Pharmacopœia Commission have received from Subcommittees three further reports, abstracts of which are given below. Original copies may be obtained from the office of the General Medical Council, 44 Hallam Street, London, W.1.

**T**HE Cod-Liver Oil Colour Test Subcommittee have defined a form of test (antimony trichloride) which if strictly followed will always yield results in near agreement for a given sample of cod-liver oil in the hands of different workers. The Subcommittee wish to point out how desirable it is for different workers to adhere closely to the conditions proposed. The Subcommittee feel that the term "blue unit" should give place to the term "blue value."

#### Cod-Liver Oil Colour Test

**ANTIMONY TRICHLORIDE TEST.**—0.04 gm. of cod-liver oil examined by the following method gives a blue colour not less saturated, that is to say not paler, than that of a blue glass standardised to have the following properties on the system of colour measurement adopted at the National Physical Laboratory:—Colour quality, 0.137R+0.271G+0.592B; photometric transmission, 34.0 per cent. In the foregoing specification R, G and B respectively denote the colours of monochromatic radiations of wave-lengths 0.700 $\mu$ , 0.546 $\mu$  and 0.436 $\mu$ , and the measurements both of colour quality and photometric transmission are presumed to be made with the National Physical Laboratory standard "white" light. The test is described as follows:—Weigh 2.00 gm. into a narrow-necked 10-millilitre measuring flask; fill to the mark with chloroform at a temperature of 20° and mix. Measure, at 20°, 0.2 millilitre of the solution so prepared by means not less accurate than a 1-millilitre pipette, the graduated portion of which is at least 15 centimetres long, into a colourless rectangular cell of 10 millimetres internal measurement in the direction of observation. Place the glass cell in a colorimeter designed for matching the colour of the solution against colour glasses. Add rapidly 2.0 millilitres of antimony trichloride reagent, in such a way that the solutions mix. Simultaneously observe the development of a blue colour which rapidly reaches a maximum and then fades. By means of combinations of graded colour glasses

match the colour at the point of maximum intensity. It may be necessary to employ yellow and red as well as blue glasses. In order to obtain an accurate match it may be necessary to diminish the transparency on the side of the cell; this must be done by adding on that side neutral tinted glasses, the value of which should be disregarded. Several preliminary observations should be made to enable subsequent readings to be taken without undue delay in arranging the glasses, and to determine how long after mixing is the point of maximum intensity of colour. The maximum intensity may develop within ten seconds, but the time varies with different oils. It is of the greatest importance that the observer should satisfy himself that the final match is made at the point of maximum intensity of the blue colour. Neither the reagent nor the solutions should come into contact with rubber. (The antimony trichloride reagent is described.)

In a note the report states, *inter alia*:—In view of the increasing practice of stating the vitamin D potency on the label of bottles of cod-liver oil, and of the desirability of uniformity in the expression of this potency, the Commission are considering an addition to the requirements which will define the standard preparation and the unit, and indicate the methods of assay which are to be used by those who wish to make a biological estimation of vitamin D in samples of cod-liver oil.

#### Digitalis and Strophanthus

Considerations accepted by the Subcommittee on Digitalis and Strophanthus are summarised in a form convenient for a pharmacopœial monograph as follows:—For official purposes, digitalis leaf is reduced to a No. 20 powder, no portion being rejected. This powder, except when used for the preparation of a tincture to be standardised, is assayed by comparison with a standard preparation and its strength, as determined by the assay, is stated in terms of the International Standard digitalis powder, of which 0.1 gm. is taken to



have an activity described as 1 unit. Digitalis leaf containing more than 10 units in 1.0 gm. may be adjusted so as to contain 10 units in 1.0 gm. by thorough mixture with digitalis leaf containing less than 10 units in 1.0 gm., or with the exhausted marc remaining when tincture of digitalis is prepared, the marc being carefully dried before mixing. Digitalis powder intended for oral administration without further preparation is adjusted as described so as to contain 10 units in 1.0 gm. Each container of digitalis leaf bears a label stating the number of units of activity contained in 1 gm., and also the weight in grammes which is equivalent in activity to 1.0 gm. of the International Standard digitalis powder.

**TINCTURE OF DIGITALIS.**—The Subcommittee put forward their recommendations in the following form:—Tincture of digitalis possesses the unit of activity (equivalent to the activity of 0.1 gm. of the International Standard digitalis powder) in the millilitre. It is prepared in either of the following ways: (1) *Preparation from digitalis leaf* (unassayed), digitalis leaf (in moderately coarse powder) 100 gm., alcohol (70 per cent.) a sufficient quantity. Moisten the powder with 100 millilitres of the alcohol, set aside for four hours in a well-closed vessel, pack in a percolator and add sufficient of the menstruum to saturate the material and leave a layer of liquid above. Macerate for twenty-four hours; then allow the percolation to proceed slowly until the percolate measures not less than 700 millilitres. Assay a portion of the percolate by the biological assay of tincture of digitalis. To the remainder of the percolate add a sufficient quantity of alcohol (70 per cent.) to produce a tincture of the same strength as the tincture prepared from the standard preparation; (2) *Preparation from powdered digitalis* (assayed), powdered digitalis, a quantity containing 1,000 units of activity, equivalent to 100 gm. of the International Standard digitalis powder; alcohol (70 per cent.), sufficient to produce 1,000 millilitres. Moisten the powder with 100 millilitres of the alcohol (70 per cent.) and complete the process of percolation.

**INFUSION OF DIGITALIS.**—The Subcommittee make the following recommendations for infusion of digitalis:—Infusion of digitalis is a freshly made infusion of powdered digitalis. Powdered digitalis—a quantity possessing 50 units of activity, equivalent to 5 gm. of the International Standard digitalis powder; distilled water 1,000 millilitres. Infuse in a covered vessel for fifteen minutes; strain while hot.

**BIOLOGICAL ASSAY.**—Details of the biological assay of powdered digitalis are divided into paragraphs as follows:—(1) Standard preparation of digitalis; (2) the unit; (3) method; (4) suggested details of a method employing the frog; and (5) the methods employing the cat or the guinea-pig. The biological assay of tincture of digitalis is also dealt with.

**TINCTURE OF STROPHANTHUS.**—The following draft requirements for tincture of strophanthus are proposed:—Tincture of strophanthus possesses biological activity equal to that of the standard tincture of strophanthus. Strophanthus seeds (in moderately coarse powder, dried at 45°), 100 gm.; alcohol (70 per cent.) a sufficient quantity. Pack the powder in a percolator; moisten with light petroleum and macerate for twenty-four hours; then allow percolation to proceed, continuing the addition of the light petroleum until the liquid passes through colourless. Reject the percolate, remove the marc from the percolator, and dry it by exposure to air, finishing the drying if necessary in a current of air at a temperature not exceeding 40°. Again reduce it to powder, replace in the percolator, and moisten with the alcohol (70 per cent.). Macerate for forty-eight hours, then pour on successive quantities of the alcohol (70 per cent.), percolating slowly, until 700 millilitres of the percolate are obtained. Assay a portion of the percolate by the biological assay of tincture of strophanthus. To the remainder of the percolate add a sufficient quantity of the alcohol (70 per cent.) to produce a tincture of the same strength as the standard tincture of strophanthus. This tincture possesses the same activity as the average of good samples of tincture

of strophanthus of the British Pharmacopœia 1914. Recommendations for biological assays of tincture of strophanthus and strophanthin are given.

### Sterile Solutions for Injection

In view of the increasing practice of administering drugs in the form of injections, the Commission think it necessary that the Pharmacopœia should contain instructions for the preparation of such injections in a sterile condition. The Subcommittee on the Preparation of Sterile Solutions for Injection was appointed to prepare for the Commission a general statement of the principles to be adopted in sterilising solutions intended for this purpose, and to supply notes on the best methods of sterilising the solutions of special drugs. The only test of whether sterilisation processes are efficiently performed is that the solutions treated, when submitted to tests for sterility, are found to be sterile, and it might appear wise to demand that all solutions for injection should pass the tests for sterility. The Subcommittee wish to draw attention to the recommendation that whenever solutions for injection are placed in containers from which it is possible for the medical practitioner to withdraw doses at different times, an antiseptic is to be added to the solution. Perhaps the most difficult task of all is to propose directions for sterile solutions required in an emergency, with which the retail pharmacist has most commonly to deal. . . . The Subcommittee have adopted a procedure recommended by Mr. Coulthard according to which the solution is prepared by aseptic methods, and an antiseptic is added to it. The solution after being sealed in the container is then heated to 80°, at which temperature the antiseptic present will have a powerful germicidal effect.

**PREPARATION OF STERILE SOLUTIONS FOR INJECTION.**—(1) Solutions of medicaments to be administered by injection are dispensed in containers which are sealed so as to exclude bacteria. When the container is sealed so as to permit the withdrawal of successive doses on different occasions, the medicament contains a suitable antiseptic in such a concentration as will prevent the growth of bacteria at least as effectively as 0.5 per cent. w/v of phenol. (2) All glass vessels and containers are sterilised by heating to 150° for one hour or by heating in an autoclave. (3) Solutions which are sterilised by heating in an autoclave, when the volume in each container is 100 millilitres or less, are distributed in the final containers, which are then suitably sealed and exposed to steam at 115° to 116° for thirty minutes; this temperature is reached when the pressure at which the steam is applied is 10 lb. per square inch in excess of atmospheric pressure. Solutions of larger volume are exposed for a longer time sufficient to ensure that the whole bulk of each solution is maintained at the temperature of 115° to 116° for thirty minutes. (4) Solutions sterilised by Tyndallisation are distributed in the final containers, which are then sealed, and heated so that the whole bulk of each solution is maintained at 80° for one hour on three successive days. (5) Solutions sterilised by filtration are filtered through a sterile bacteria-proof filter. After distribution into the final containers and the sealing of the containers they are submitted to the tests for sterility and satisfy these tests. (6) Solutions or suspensions in oil are sterilised by heating to 150° for one hour; when the solution or suspension cannot be submitted to this temperature because a physical or chemical change would thereby be produced, the solution or suspension is prepared by aseptic methods using, as the solvent, oil which has previously been heated to 150° for one hour. The solution or suspension is then transferred to previously sterilised containers and sealed so as to exclude bacteria. (7) Solutions of medicaments required in an emergency are prepared by aseptic methods with the addition of an antiseptic in such concentration as will prevent the growth of bacteria at least as effectively as 0.5 per cent. w/v of phenol. The solutions are distributed into the previously sterilised containers and sealed. The sealed containers are then heated by immersion in water or other means so as to bring the temperature of the



solution to 80° for not less than thirty minutes. The containers bear a label on which is written the date and the warning "Keep in a cool place and use within four days." When this process is applied to any solution intended for intravenous injection the addition of the antiseptic is omitted. The solution is then prepared by aseptic methods and boiled for fifteen minutes. The emergency method of sterilisation is not applicable to solutions for intraspinal injection. The report states in a note that "In any emergency in which the methods described above cannot be applied, it is the duty of the dispenser to inform the prescriber that complete sterilisation cannot be attempted and to obtain the prescriber's approval for the method adopted."

#### AQUA DESTILLATA STERILISATA

Distil water into a previously sterilised glass receiver, and transfer the freshly distilled water to a sterilised hard-glass container. Close the container so as to exclude bacteria, and sterilise by heating in an autoclave or, if this is not available, by boiling for thirty minutes. Sterilised distilled water, which is employed for intravenous injection, is used within twenty-four hours after its distillation; employed for other purposes, it is used within one month after its preparation. If the whole

of the contents of a container is not used when the container is opened, the container is sealed again, and is resterilised in the same way as before.

#### INJECTIO SODII CHLORIDI ET ACACIÆ

Sodium chloride, 9 grm.; acacia, 60 grm.; distilled water, freshly prepared, sufficient to produce 1,000 millilitres.

Heat the distilled water so as to dissolve the sodium chloride and the acacia. Heat the solution in the autoclave to a temperature of 121° to 122° for one hour. When the liquid is cooled strain it carefully through cotton wool and then filter it by the aid of pressure through alternate layers of filter paper and linen. Transfer to glass containers, and cover the mouth of the containers so as to exclude bacteria. Sterilise by heating in an autoclave and seal the containers when cool without exposing the contents to contamination.

#### LIQUOR SODII CHLORIDI PHYSIOLOGICUS

Sodium chloride, 9 grm.; distilled water, sufficient to produce 1,000 millilitres. Dissolve; filter; sterilise by heating in an autoclave, by Tyndallisation, or by filtration.

## Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Local Reports ENGLAND AND WALES

**Devon.**—At a recent meeting of Devon Insurance Committee it was reported that prescriptions received from chemists in the South-Western area during the past year totalled 2,684,387, against 2,859,830 in 1929, and in Devon 334,922, against 349,927. The chairman (Mr. Philip F. Rowsell) said that at the last meeting of the Finance Subcommittee reference was made to the average cost of pricing prescriptions, and the question was raised as to whether insured persons were getting all the benefits to which they were entitled, seeing that the price of prescriptions was comparatively low. As a matter of fact the cost of some prescriptions was not inconsiderable, for he had gone into the matter with the superintendent of the Pricing Bureau. When considering the cost of prescriptions it should be borne in mind that medical men were empowered to use their discretion, and could order expensive drugs whenever they considered them necessary. He maintained that many insured persons received better treatment than some people who were not insured. Mr. A. E. Cook said Mr. Rowsell's remarks should allay the feelings of insured persons, among whom there was a certain amount of prejudice that they were not sometimes obtaining the treatment and drugs that they would if they were ordinary patients. Dr. Twining endorsed what Mr. Rowsell had said. It was reported that the Medical Benefit Subcommittee had had correspondence with reference to the non-supply by a corporation of diphtheria antitoxin to insured persons in their area, and that the Subcommittee had suggested that the corporation might desire to consider the advisability of making such supply free to all, without question, as was done in many other areas, rather than risk any delay which might endanger the public health by referring certain cases to alternative arrangements. The Committee decided to ask the Ministry of Health to withhold from two chemists sums payable in respect of medical benefit for committing breaches of agreement in regard to supplying medicine to insured persons. In another case it was decided to warn a chemist.

**Middlesex.**—At the first meeting of the newly elected Middlesex Pharmaceutical Committee, held on July 15, it was reported that the following persons had been elected without opposition:—Messrs. Andrew, Bright, Clement, Corral, Dobson, Duncan, Edkins, Goode, Hall, Jackson, Marns, Sayers, Skinner, Taggart, Walters and

Weiss. The following officers were appointed:—*Chairman*, Mr. G. F. Weiss (Tottenham); *Vice-Chairman*, Mr. C. E. A. Goode (Twickenham); *Secretary*, Mr. Hugo Wolff; *Checking Supervisor*, Mr. John Humphrey; *Auditors*, Messrs. Downing and Anderson. A letter was received from Mr. William Duncan, tendering his resignation on the ground of serious ill health. The secretary reported on the position with regard to the National and Middlesex formularies. The basis of an agreement with the Panel Committee on the subject was approved, provided certain conditions were complied with. The supervisor's report included the following particulars:—

	No. of prescriptions	Ingredient cost			Dispensing fees		
		£	s.	d.	£	s.	d.
April 1931 ..	182,565	2,657	18	9	3,377	13	4
		(av. 3.5d.)			(av. 4.4d.)		
May 1931 ..	170,348	2,453	13	11	3,120	18	9
		(av. 3.4d.)			(av. 4.4d.)		

The report was adopted. The annual report of the Committee states that prescriptions dispensed during 1930 were less numerous than for the previous year. The following statistics are given:—

	1929	1930
No. of prescriptions ..	2,201,998	2,073,450
Ingredient price ..	£34,948 5s. 0d.	£31,499 9s. 0d.
Dispensing fees ..	£40,591 11s. 2d.	£37,745 10s. 8d.
Average ingredient price ..	3.8d.	3.6d.
Average dispensing fee ..	4.4d.	4.4d.
No. of persons on panel list	517,877	550,534

Chemists' accounts for 1930 were paid in full, with a bonus in addition. A proposal by the Minister of Health to revoke Clause 4 (4) of the Chemists' Terms of Service was received with extreme disapproval by chemists on the panel, and the Middlesex Pharmaceutical Committee was prompt in sending a letter of protest to the Minister. Adoption of the national scheme for the testing of dispensing having been decided upon, this scheme is now in force in Middlesex and is working satisfactorily. By arrangement with the Panel Committee it has been decided to prepare and circulate a special Middlesex Addendum to the National Formulary. Copies of this Addendum will be supplied in due course to all doctors and chemists on the Middlesex panel, and a date will then be notified, after which it will no longer be permissible to order medicines from the old Middlesex Formulary, unless the prescriptions are written in full.

**Rutland.**—At a recent meeting of Rutland Insurance Committee it was decided to support a protest of the Salford Insurance Committee against the proposed revocation of Clause 4 (4) of the Terms of Service for persons supplying drugs and appliances.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, August 6

THE usual lack of interest associated with the holiday season is evident in all directions in the markets. Since the re-opening the tone has remained dull, with the markets sluggish. In the absence of business of any importance quoted values are being maintained. The unseasonable weather has added to the depression in some instances. In pharmaceutical chemicals an advance of sixpence in coumarin is recorded; the anticipated reduction in potassium sulphoguaiaicolate has now been effected and a similar movement is not unlikely in the course of the next few days in phenolphthalein. A rather depressed tone is noticeable in the crude drugs section, due, partly, to the holiday season. Since the re-opening business has been dragging and seems to have been unimportant. Senega is cheaper, although it was previously at what looked to be attractive figures. In most other directions sellers' ideas of values are generally unchanged. The essential oil markets have been very quiet since the holidays, but quoted prices are being generally maintained, the alterations being of a minor character. Sicilian oils, although about unchanged, are not so healthy and business is comparatively poor. The fixed oils group is lifeless, with values mostly nominally unchanged. Linseed oil is easier. There is no change to record in industrial chemicals. Business is very poor indeed. The demand for carbolic acid crystals continues fair, while business in other coal-tar products is slow.

Firmer	Easier
Coumarin	Cocunut (desiccated) Linseed oil Pimento Potassium sulphoguaiaicolate
	Rubber Senega Wood oil (Hankow)

## Pharmaceutical Chemicals, etc.

VERY little business has been transacted during the few days the market has been operating. There is a general slackness in most directions and no material improvement is looked for until the holiday season has passed. The general tone continues steady. Citric and tartaric acids and cream of tartar remain dull and unsteady. Potassium sulphoguaiaicolate is easier.

ACETANILID remains dull with the market steady: B.P. crystals and powder, 1s. 4½d. to 1s. 6d. per lb. as to quantity.

AMIDOL is unchanged, with a little business moving: one cwt., 7s.; 56 lb., 7s. 3d.; 23 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb., in 7-lb. tins.

AMIDOPYRIN remains dull with values holding steady: crystals, five cwt., 11s. 11d.; two cwt., 12s. 1½d.; less than two cwt., 12s. 4d. per lb., with powder 1½d. per lb. extra.

ASPIRIN is a healthy market with business satisfactory and values well maintained: home trade: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 23 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 1 lb., 3s. 4d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d. per lb., f.o.b.; less than one cwt., 2s. 9d. per lb., ex works.

BARBITONE is steady but very dull: spot, one cwt., 7s. 3d.; smaller parcels, up to 7s. 9d. per lb. as to quantity.

BENZOIC ACID (B.P.) is being called for in fair quantity, with competition keen: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 1s. 10½d. per lb., ex store.

BROMIDES.—There is nothing but unimportant business moving and competition is severe: ammonium, 1s. 6½d. to 1s. 6¾d.; potassium, B.P. crystals, 1s. 3½d.; granular, 1s. 3¾d.; sodium, B.P., 1s. 5½d. per lb., and slightly less for bulk quantities.

CALCIUM LACTATE is about steady but of little interest: spot, 1s. 1½d. to 1s. 3d. per lb. as to quantity.

CHLORAL HYDRATE is unchanged, with the market steady but slow: duty-paid crystals, 2s. 11½d. to 3s. 1½d. per lb. as to quantity and packing; foreign, on spot, 3s. 3d. per lb.

CITRIC ACID (B.P. CRYSTALS).—There has been very little business during the week and conditions remain unsteady and rather weak: foreign material, on spot, about 10½d. to 10¾d. per lb., less 5 per cent., carriage paid, and less for good quantities. British makers quote 10¾d. per lb., less 5 per cent. discount.

U.S. shipments of citrate of lime landed in the United Kingdom during the period January-May 1931 totalled 1,972,145 lb., valued at \$252,682.

COUMARIN has been advanced sixpence per lb.: five cwt., 10s. 6d.; one cwt., 11s.; and smaller quantities, 11s. 6d. per lb.

CREAM OF TARTAR remains unsteady and the demand is still poor: foreign material is quoted at about 77s. to 77s. 6d. per cwt., less 2½ per cent., carriage paid, and less would be accepted for good quantities. British makers quote 79s. per cwt., less 2½ per cent. discount.

GUAIACOL CARBONATE is maintained at the higher value recorded last week of about 5s. 7½d. per lb. for small quantities.

HEXAMINE is showing a fair business, with competition still cutting quoted figures for important business: free-running crystals, spot, from 1s. 9½d. to 1s. 10d. per lb., and less for large contracts.

HYDROQUINONE is steady, with about average business moving: ten cwt., 3s. 3¾d.; five cwt., 3s. 4½d.; two cwt., 3s. 5½d.; one cwt., 3s. 5¾d.; 56 lb., 3s. 6¾d.; 23 lb., 3s. 8¾d.; 14 lb., 3s. 10½d.; 7 lb., 4s. 0½d.; 1 lb., 4s. 7d. per lb., carriage paid.

LACTIC ACID (B.P.) is unchanged, with all sources offering at level figures: one to 99 ks., 1s. 5d.; 100 to 499 ks., 1s. 4½d.; 500 to 999 ks., 1s. 4d.; 1,000 to 4,999 ks., 1s. 3½d.; and 5,000 ks. and over, 1s. 3d. per lb., in 50-ks. carboys, carriage paid.

METHYL SALICYLATE (B.P.) is very steady and business is fair: one ton and over, 1s. 3d.; five cwt., 1s. 3½d.; one cwt., 1s. 3¾d.; less than one cwt., 1s. 4d. per lb.

METHYL SULPHONAL is of little interest: quoted prices unchanged: two cwt., 12s. 7d.; one cwt., 13s.; 56 lb., 13s. 5d.; small parcels, 13s. 7d. per lb.

METOL is steady, with a limited demand: 23 lb., 6s. 9d.; 14 lb., 7s. 3d.; 7 lb., 7s. 9d. per lb.; and slightly less for larger quantities.

MILK SUGAR is a keen market for a rather small business: one ton, 40s. 6d.; ten cwt., 41s. 6d.; two cwt., 43s. 6d. per cwt., in two-cwt. cases.

PARAFORMALDEHYDE is meeting with occasional business, for which keen prices are quoted: 100 per cent. powder, quantities in kegs, 1s. 4d.; smaller parcels, up to 1s. 5½d. per lb.

PARALDEHYDE is dull: quantities in demijohns, 10d.; drums, 11d.; winchesters, 1s. per lb.

PHENACETIN is about steady with the market rather slow: crystals, ten cwt., 3s. 8d.; five cwt., 3s. 9d.; two cwt., 3s. 9½d.; and less, 3s. 10½d., with powder 1½d. per lb. extra.

PHENAZONE is unchanged, while business has been poor: crystals, ten cwt., 6s. 4d.; five cwt., 6s. 5½d.; two cwt., 6s. 7d.; and less, 6s. 8½d. per lb., with powder 1½d. per lb. extra.

PHENOLPHTHALEIN.—The former Convention scale of values is nominal. Competition has necessitated consideration of a further revision, and it is anticipated a reduction will be notified in the near future.

POTASSIUM PERMANGANATE (B.P.) is quoted at about 5½d. per lb. for druggists' parcels: quantities in drums, 5½d.

POTASSIUM SULPHOGUAIACOLATE.—It is understood that the price for not less than one cwt. has been fixed at 3s. 2½d. per lb.

PYROGALLIC ACID is steady and a fair amount of business is being done: one cwt., 6s. 9d.; 56 lb., 7s.; 23 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb., in 7-lb. tins.



RESORCIN is a steady market with a fair business moving: spot, crystals, 2s. 9½d. to 2s. 11d. per lb. as to quantity, with powder 1d. per lb. extra.

SALICYLIC ACID (B.P.) is very steady at home makers' prices: one ton, 1s. 5d.; ten cwt., 1s. 5½d.; five cwt., 1s. 6d.; one cwt., 1s. 6½d.; small parcels, up to 2s. per lb.

SALOL is unchanged, with a moderate business moving: crystals, two cwt., 3s. 7½d.; one cwt., 3s. 9d.; 56 lb., 3s. 9½d.; smaller parcels, 3s. 10½d. per lb.; powder, 1½d. per lb. extra.

SODIUM BENZOATE (B.P.) is about steady, with only a small demand at the moment: one ton, 1s. 6d. up to 1s. 7½d. per lb. for small parcels.

SODIUM DIETHYLBARBITURATE is of little interest; values unchanged: spot, 8s. 9d. to 9s. per lb. as to quantity.

SODIUM SALICYLATE (B.P.) is steady at former rates with the market on the quiet side: home trade, powder, two tons, 1s. 10d.; one ton, 1s. 10½d.; ten cwt., 1s. 11d.; five cwt., 1s. 11½d.; one cwt., 2s.; 23 lb., 2s. 1d.; 14 lb., 2s. 3d.; 7 lb., 2s. 4d.; 1 lb., 2s. 8d. per lb., with crystals 1d. per lb. extra.

SULPHONAL is very slack, with quoted values unchanged: crystals, 10s. 1d. to 11s. 2d. per lb. as to quantity, with powder 1½d. extra.

TARTARIC ACID (B.P. crystals) has been a poor market and values, as quoted, are by no means steady: foreign, on spot, about 10½d. to 10½d. per lb., less 5 per cent., ex wharf. British makers quote 10½d. per lb., less 5 per cent. discount.

THYMOL is barely maintained at the reduction recorded last week and a further slight cut in prices is not unlikely: synthetic, fine white, one cwt., 5s. 10d.; 56 lb., 6s.; 23 lb., 6s. 2d.; 14 lb., 6s. 4d. per lb.; ex ajowan seed, one cwt., 6s. 9d.; 56 lb., 6s. 10½d.; 23 lb., 7s.; 14 lb., 7s. 3d. per lb.

VANILLIN has been of small interest; quoted values are unchanged and the market is steady: ex guaiacol, one ton, 13s.; ten cwt., 13s. 3d.; five cwt., 13s. 6d.; three cwt., 13s. 9d.; one cwt., 14s.; 56 lb., 14s. 3d.; 23 lb., 14s. 6d.; 14 lb., 14s. 9d.; less, 15s. per lb.; ex clove oil, 14s. 6d. to 16s. 6d. per lb. as to quantity, from one ton to less than 14 lb.

### Crude Drugs, etc.

AGAR-AGAR.—There is little interest in the market, which is quoted unchanged: Kobe No. 1, 4s. 1½d. spot; 4s. 2d. c.i.f.; No. 2, 3s. 11d. spot; 3s. 11½d. c.i.f.; Yokohama, spot, 3s. 11d.; 3s. 10d. c.i.f.

ANTIMONY is steady and unchanged on the week with the market dull: Chinese crude, spot, £21; shipment, £14 c.i.f.; Chinese white oxide, spot, £30; shipment, £22 10s. c.i.f.

BALSAMS.—*Tolu* is quoted very steady on spot from 2s. 5d. per lb.

BELLADONNA.—Good green leaves are offering on spot at 60s.; good test root, 44s.

CAMPHOR is unchanged on a steady but slow market: Japanese, refined, slabs, 2s. 1d.; flowers, 2s. 2d.; tablets, 2s. 7d.; shipment, slabs, 1s. 11d.; flowers, 1s. 11½d.; tablets, 2s. 5d. c.i.f.

U.S. imports for period January-May totalled (natural, crude) 535,312 lb., valued \$201,133, against 489,415 lb. (\$194,686) for same period of 1930; (natural, refined) 511,910 lb., valued \$248,366, against 413,423 lb. (\$237,206) for same period of 1930; (synthetic) 932,927 lb., valued \$311,140, against 956,683 lb. (\$337,560) for same period of 1930.

CANTHARIDES.—Stocks very scarce. New Russian flies are expected in a month's time.

CARDAMOMS.—Little more inquiry for medium bold: bold Ceylon-Mysore, 5s. 3d. to 5s. 6d.; mediums, 3s. 9d. to 4s.; small mediums, 2s. 6d. to 3s. 3d.; Aleppy green, 1s. 10d. spot, 1s. 9d. c.i.f. Bombay seed, 2s. 11d. spot.

CHAMOMILES.—New crop Belgian first pickings quoted at 120s. per cwt. c.i.f. Crop should be fair given a week or two of fine weather. First samples to hand show signs of damage by rain.

CLOVES.—The market has been dull and the shipment positions are slightly easier; Zanzibar, spot, 9½d.; shipment, August-October, 6½d. c.i.f.; Madagascar, spot, 8½d. sellers.

The landings of Zanzibar in London during the week ended August 1 were 16, and the deliveries 125, leaving a stock of 384, against 827 in 1930. From January 1 to date, landings of Zanzibar have been 1,070, against 6,130 in 1930, and the deliveries 1,705, against 5,310 in 1930. Landings of Madagascar for the week ended August 1 were 25, and the deliveries nil, leaving a stock of 1,275, against 2,695 in 1930. Landings of Madagascar this year to date have been 2,138, against 4,824 in 1930, and the deliveries 1,769, against 2,142 in 1930.

COCOA BUTTER is a fraction easier on a sluggish market: prime English, 10d.; Van Houten's A, 10½d. per lb., in minimum one-ton lots.

COCONUT (DESICCATED) is quoted at lower rates with the market slack: spot, fine and medium, 18s. 9d.; shipment, halves, August-September, 16s. 3d. sellers, c.i.f.

COD-LIVER OIL.—The market continues very steady at full rates, and a fair volume of orders for shipment has been booked. Shipments to July 20 totalled 44,685 hectol; finest non-freezing Lofoten medicinal oil, 113s. to 114s. per barrel, c.i.f.; spot, minimum five-barrel lots, 116s. Some brands may be slightly cheaper.

ERGOT.—Russian continues to be quoted on spot at 10½d. per lb.

U.S. imports during 1930 totalled 291,300 lb., compared with 228,000 lb. in 1929, and 299,400 lb. in 1928. Russian exports for 1930 totalled 57,330 lb., against 196,245 lb. in 1929.

GELATIN is keeping fairly steady although business is light: gold leaf, 2s. 1d.; silver leaf, 1s. 8d.; bronze leaf, 1s. 5d. per lb., in cwt. cases.

GENTIAN.—Good red French root is offering from 29s. 6d. per cwt.

GINGER is holding quite steady, and fair business is being done: West African, spot, 26s.; shipment, 24s. c.i.f.

GUM ACACIA has been neglected and quoted prices are nominally unchanged; Kordofan, cleaned sorts, 38s. 6d.; natural, 36s. 6d. bleached, 102s. to 104s. per cwt.

LAVERANDER FLOWERS.—It is reported that French crop is short owing to very dry season.

LIQUORICE ROOT is offering at 28s. 6d. per cwt., for single peeled root on spot.

MENTHOL.—The market is fully maintained, and some spot business is reported: spot, K/S brands, 13s. 7½d. to 13s. 9d.; shipment, July-August, 13s. 3d.; October-December, 13s. 3d. c.i.f.

MERCURY continues steady at the controlled figure with Spanish-Italian at £16 15s. per bottle, f.o.b.; spot, about £17 for fair quantities.

U.S. production for 1930 totalled 21,553 bottles, valued at \$2,478,789. U.S. imports for 1930 totalled 2,943 bottles, valued at \$295,829, against 14,292 bottles (\$1,447,142) in 1929.

PEPPER.—The market has been slow since the holidays, but prices are quoted about unchanged; Lampong, spot, 5½d.; shipment, July-August, 5½d.; August-October, 5½d. c.i.f.; Tellicherry, spot, 6d.; August-October, 5s. c.i.f., nominal; Aleppy, spot, 6d.; August-September, 5s. c.i.f., nominal; white Muntok, spot, 8½d.; July-August, 7½d.; August-September, 7½d. c.i.f.

PIMENTO is easier on a dull market: spot, 3d.; shipment, August-October, 26s. sellers, c.i.f.

RUBBER is still dull and unsteady. U.K. stocks, 136,216 tons against 108,733 tons a year ago. No. 1 standard ribbed smoked sheet, sellers, spot, 2½d.; August and September, 2½d.; October-December, 2½d.; January-March, 2½d.

SAFFRON continues fairly steady, but business is unimportant; prime B.P., 44s.; extra B.P., 40s.; super B.P., 38s. per lb., spot.

SEEDS.—Market quiet and unchanged. ANISE.—Spanish 47s. 6d., Bulgarian 32s. 6d., and Russian 30s. per cwt. spot. CANARY.—Mazagan spot 18s., shipment 12s. 3d. c.i.f. Tangier 17s. 6d., and Kenitra 15s. 6d. spot. LINSEED.—Mazagan 16s. 6d. Morocco sold at 15s. 6d. spot. CORIANDER.—Sellers asking 11s.; a small business passing at 10s. 6d. CUMIN.—Malta, 50s. spot, shipment 45s. c.i.f. Morocco easier at 37s. 6d. spot, shipment 27s. 6d. c.i.f. FENUGREEK.—Morocco spot now 14s. 6d., Tunisian 16s. 6d. CARAWAY.—Dutch 25s. 6d. spot. MUSTARD.—English 22s. 6d. to 32s. per cwt. according to quality.

SENEGA is easier with the market showing little activity: spot, 2s.; shipment, 1s. 8d. c.i.f.

SENNA.—There has been very little doing so far in this article, and prices are nominally unchanged; Alexandrian, finest selected hand-picked pods, about 5s. 6d.; seconds, 3s. 6d.; mediums, 1s. 9d.; ordinary manufacturing, 4½d. to 5d. per lb. as to quality. Tinnevely, new crop, ordinary f.a.q. pods, 4d. to 4½d.; hand-picked, 5½d. to 6d. per lb.

U.S. imports for period January-May totalled 237,774 lb., valued \$15,421, against 1,188,704 lb. (\$89,402) for same period of 1930.

SHELLAO is slightly easier on the week, and has been dull since the re-opening: TN standard orange, spot, 70s.; fine orange, 37s. 6d. to 160s.; pure button, 87s. 6d.; for delivery, TN sellers, August, 60s.; October, 62s.; December, 64s. c.i.f.; for arrival, TN sellers, July-August, 60s.; September-October, 60s. c.i.f.



SQUILL is offering on spot or to arrive at 18s. 6d. per cwt., for fine white root.

WAX (VARIOUS).—Business in these products has again been quiet, but the markets are keeping fairly steady: JAPANESE, on spot, 47s.; CARNAUBA, fatty grey and chalky grey, 67s. 6d.; medium yellow, 140s.; fine yellow, 170s. per cwt., spot. Candelilla is steady at 65s. per cwt.; SPERMACEIL, 9½d. per lb., spot; PARAFFIN, 17s. 6d. to 27s. 6d. per cwt., as to melting point; CERESINE, 35s. to 80s. per cwt., as to colour and melting point; BEES, bleached, discs, 27; slabs, £6 17s. 6d.; yellow refined, £6 2s. 6d.; yellow crude, £5 5s. per cwt., spot.

### Essential Oils

QUIET markets are reported, the lack of good business being the chief feature. Prices, however, are keeping up well, only a few minor alterations to slightly lower values being recorded. Sicilian oils are dull, and recent improved values are barely held. Lime is scarce and firm. Bourbon geranium is a point easier for shipment. Japanese dementolised peppermint is steady.

ALMOND is offering on spot at about 6s. 6d. per lb.; market dull.

ANISE (STAR).—The market is unchanged and quiet: "Red Ship," spot, in leads, 2s. 2d.; in tins, 2s.; in drums, 1s. 10½d.; shipment, in leads, 1s. 9½d.; in tins, 1s. 8½d.; in drums, 1s. 7½d. per lb., c.i.f.

BERGAMOT.—The market has shown very little activity during the holiday week. Values on spot are barely maintained and the shipment offers appear to be tending a trifle easier in the region of 7s. 4d. to 7s. 6d. per lb., c.i.f.; spot is quoted about unchanged at 8s. per lb.

BOIS DE ROSE is steady as quoted last week; business quiet: Cayenne, 3s. 10d. to 4s. per lb.; Brazilian, spot, 2s. 9d.; shipment, 2s. 6d. per lb., c.i.f.

CARAWAY has been very quiet: Dutch double-distilled steady at about 6s.; crude, 5s. 7d. per lb., spot.

CASSIA is weak on a slow market as quoted at 3s. 3d. per lb. for oil passing the B.P.; shipment, about 3s. per lb., c.i.f.

CEDARWOOD is rather easier on spot at about 1s. 6d.; shipment, about 1s. 3d. per lb.

CINNAMON LEAF has remained slack on spot: quoted at about 3s. 6d.; shipment, 2s. 9d., c.i.f.

CITRONELLA.—So far this week the market has been neglected and is nominally unchanged: Java, spot, 2s. 3d.; shipment, 2s. 1d. per lb., c.i.f.; Ceylon, spot, 1s. 9d.; shipment, 1s. 5d. per lb., c.i.f.

CLOVE is inclined to be easier on a dull market: spot, 5s. 9d. to 6s. per lb., as to quantity, for 90 to 92 per cent.

EUCALYPTUS has been in moderate demand and quoted prices are maintained: 70 to 75 per cent., 1s. 1d. to 1s. 1½d.; 80 to 85 per cent., 1s. 2½d. to 1s. 3d. per lb., and slightly less for bulk quantities.

GERANIUM.—The shipment position is a trifle easier, with Bourbon at 15s. 9d. c.i.f., and spot would be close up to 16s. 9d. per lb.

GINGERGRASS is a dull market, spot offering at about 7s. 3d. per lb.

JUNIPER BERRY (B.P.) is unchanged and there is little interest in the market: spot, about 4s. 6d. per lb.

LAVENDER is keeping about steady, although business of late has been poor: French, 38 to 40 per cent., 8s. 3d. to 8s. 6d. spot, and shipment about 8s. per lb., c.i.f.; 36 to 38 per cent., spot, 8s. per lb.

LEMON.—With but unimportant business passing this week the market is nominally unchanged, with spot Sicilian hand-pressed about 3s. 8d. to 3s. 9d. per lb., and shipment about 3s. 5d. to 3s. 6d., c.i.f.; machine-made, spot, 3s. 4d.; shipment, about 3s. 2d., c.i.f.; Californian, 2s. per lb., in drums, spot.

LEMONGRASS has been very flat: the spot offer is in the region of 2s. per lb.; shipment, 1s. 9d. per lb., c.i.f.

LIME is well up to last week's advance, with genuine distilled on spot at about 42s. 6d. per lb.; hand-pressed, about 52s. 6d. per lb.

Shipments from Trinidad to the United States during 1930 totalled 8,600 lb., valued at \$57,300, against 3,500 lb. (\$30,700) in 1929.

MANDARIN is steady, with spot in the region of 14s. 3d. per lb., and shipment is maintained at 13s., c.i.f.

ORANGE, although decidedly quiet in demand, is holding fairly steady at former rates: Sicilian sweet orange, spot about 7s.; shipment, 6s. 6d., c.i.f.; Californian, spot, 5s. 5d. to 5s. 9d. per lb. as to quantity.

PALMAROSA is unchanged, with the market neglected: spot, about 8s. 6d., and shipment, 8s. per lb., c.i.f.

PEPPERMINT.—Business has been slow but the market is about steady at level figures on the week: Japanese dementolised, spot, 4s. 7½d.; afloat, 4s. 4½d.; shipment, July-August, 4s. 5d.; October-December, 4s. 3d., c.i.f.; American oil is nominal on spot and shipment is holding at 7s. 6d., c.i.f.

PETITGRAIN remains slack and the market is rather unsteady as quoted at 4s. 9d. spot, and shipment about 4s. 2d., c.i.f.

ROSE is a dull and irregular market: spot, own distillation, about 47s. to 49s.; green seal, about 35s. per oz.

SASSAFRAS is unchanged, with no business moving: spot, 4s. 3d. to 4s. 7d. per lb. as to origin.

SPEARMINT is meeting with a poor demand: spot, about 10s. per lb.

BAY, spot, 5s. 9d. to 7s. 6d., as to phenol content; CANANGA, 7s. 9d.; GINGER, 25s.; NEROLI, French, 16s. to 22s.; Italian, 4s. 3d. to 4s. 6d.; NUTMEG, B.P., 5s. 9d.; PENNYROYAL steady at 4s. 3d.; SAGE, 1s. 10d. to 2s.; THYME, white, 3s.; red, 3s. 6d.; wintergreen, 6s. 6d.; WORMSEED, 12s.; YLANG-YLANG, Manilla, 5s. oz.; Bourbon, 20s. to 32s. 6d. per lb.

The following quotations are current for synthetics: acetophone, 6s. 3d. to 6s. 6d.; amyl salicylate, cwt. lots, 2s. 2d.; aubepine, ex para cresol, 6s. 4½d. to 6s. 8d.; benzyl acetate, 1s. 5d. to 1s. 8d.; citral, 6s. 3d. to 6s. 4d.; ethyl phthalate, cwt. lots, 2s. 2d.; heliotropin, cwt. lots, 4s. 10d.; methyl anthranilate, cwt. lots, 5s. 6d.; musk ketone, 29s. 10d., with bonus for quantities; safrol, 1s. 10½d. to 2s.

The following arrivals have taken place from the countries indicated during the period July 29 to August 4, inclusive:—Almond (Nthlands) 4 cks.; camphor (U.S.) 1 dm.; cinnamon (Nthlands) 2 cs.; citronella (Ind.) 1 cs., (Ceylon) 3 dms; dill (Gy.) 1 cs.; eucalyptus (Spn.) 4 dms.; kananga (Java) 2 dms.; lemon (It.) 30 cs.; lime (Fr.) 1 dm., (Brit. Guiana) 3 cs., (B.W.I.) 3 cs.; nutmeg (U.S.) 10 cs.; orange (It.) 140 cs., (Peru) 18 cs.; patchouli (It.) 12 cs.; peppermint (U.S.) 9 cs. pimento leaf (B.W.I.) 16 cs.; sandalwood (Ind.) 7 cs.; various (Fr.) 8 cs. 8 dms.

### Fixed Oils, etc.

WITHOUT an exception the products in this section have been very quiet since the re-opening. Linseed oil is easier; in other directions quoted values are about maintained, but the general tone is not steady. ACID OILS are about unchanged; market flat: coconut and/or palm kernel, 16s. 6d.; groundnut, 16s.; soya, 14s., spot. CASTOR is steady but business is still poor: pharmaceutical, 39s. 6d.; first pressings, 35s. 6d. second pressings, 32s. 6d. (barrels); cases 24 per ton extra, ex mills, Hull, in not less than one-ton lots; Madras, 29s. 6d. (barrels) c.i.f.; Bombay, 29s. 6d. (drums) c.i.f. COCONUT is barely maintained with business very quiet: deodorised, 29s. 3d. (barrels) spot; Ceylon, 24s. (drums) c.i.f. COTTON is about steady, but the demand remains slack: deodorised, 27s.; common edible, 25s.; soap-making, 23s. 9d.; crude, 21s. 6d. (barrels) spot. GROUNDNUT is unchanged on a slack market: deodorised, 28s. 9d. (barrels) spot; crude Oriental, 25s. 3d. (drums) c.i.f. LINSEED (raw, naked) shows a loss in value for all positions, and the market is dull and closes irregular: on spot, 16s.; August, 14s. 4½d.; September-December, 14s. 7½d.; January-April, 15s. 6d. Boiled oil on spot, 18s. OLIVE remains on the quiet side, but quoted values are maintained: edible, 4s. 10d.; B.P., 3s. 11d. per gallon, in 40-gallon barrels. PALM is steadier on quotation, but the market has been quiet: Lagos, 17s. 9d.; softs, 17s. 6d.; mediums, 17s. 6d.; hards, 18s. 6d.; bleached, 20s. 7½d. spot. PALM KERNEL is keeping up to former rates, but business is slow: deodorised, 26s. 3d.; crude, 22s. 9d. spot. RAPE is steady with but very little business moving: refined, 30s.; crude, 23s. 6d. spot. RESIN has been slack with quoted values unchanged; no interest in the market: B, 10s.; D, 10s. 6d.; F/G, 10s. 9d.; N, 14s. 9d.; W/G, 17s.; W/W, 18s., ex wharf. TURPENTINE is nominally unchanged on a neglected market: total London stocks, 13,945 barrels. On spot, 47s.; October-December, 37s. 6d. WOOD.—Hankow in barrels on spot is easier at 36s.

### Canadian Imports of Essential Oils

IN 1925 imports totalled 375,893 lb. valued at \$663,367, gradually increasing to 588,163 lb. (\$1,107,672) for the year ended March 31, 1930. The chief imports were peppermint oil to the value of \$140,332 in 1929 and \$86,619 in 1930, about 80 per cent. of which was of United States origin. Eucalyptus oil imports totalled \$8,833 in 1929 and \$6,837 in 1930, about 87 per cent. being shipped from Australia.



# Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

## An Ergot Reminiscence

SIR,—Despite the hint of the chairman of the British Pharmaceutical Conference as to the heroism displayed in venturing to submit a paper on ergot, I make bold to put on record a long-passed experience about this great drug. It may not be of much, if any, actual scientific import, but it may have interest for many readers of the *C. & D.*, who enjoy the by-paths of pharmacy. I had passed into a first junior assistantship in a small provincial town. A local medical practitioner, whose skill was of more than local renown, came in one morning, and, addressing the principal in a quiet way, said, "Mr. —, get me my usual pound or two of ergot, see that it is good, and send it along in due course." My botanical searches had taken me along many hedgerows and headlands to find ergotised grasses, but a request for a pound of ergot was more than an ordinary counter experience. The ergot came. The doctor's requirements were to crush it roughly in the marble mortar, put it in 10-oz. wide-mouthed bottles which he supplied, placing a small piece of camphor in each bottle. The stoppers were hollow and served as measures. One of these bottles was always part of the doctor's equipment, along with another medicine flat, the contents of which were a mystery to the uninitiated. It was spiritus frumenti of Hibernian origin. After a time I was let into the secret. "I always have this crushed ergot—kept good by the camphor—for making my brown bottle after some types of labour. About  $\frac{1}{2}$  oz. is infused by the aid of hot water from the homely kettle, and when cold it is strained; from 3j. to 3ij. of the contents of my 'mystery bottle' is added to the liquor in making up an 8-oz. bottle. I have used this concoction for years. It acts to my satisfaction almost without exception." The human system cannot, in health or in ailments, be always estimated in the so-called equivalents of the laboratory.—I am, etc.,

ANTIQUUS (4/8).

## Liquors for Syrups

SIR,—The paper presented at the Manchester meeting of the British Pharmaceutical Conference by Mr. F. J. Todd on "Liquor Eastoni 1-3 pro Syrupo," and the brief reported remarks made thereon by Mr. Corfield, raise in my mind again the potential troubles which may arise when a concentrated liquor—said to be equivalent when combined with syrup to the corresponding B.P. syrup—is used for the preparation of the official syrup. Looking at the matter plainly I must confess that by no stretching whatever can I agree with the idea that such compounds are legitimate; and I foresee the time when some inquiring person, either under the provisions of the Food and Drugs (Adulteration) Act or the requirement of National Health Insurance, presents an order for one or other of these syrups, which on examination are found not to comply with the requirements of the B.P., and then there will be trouble. Take the simple instance of syrup of tolu, B.P., which by the official process and using good raw material does afford a nice aromatic syrup, the gravity of which will only vary within small limits. It will not be a matter of difficulty to detect the difference between the syrup made by the official process and one made from a so-called equivalent liquor. In a greater degree would these considerations weigh in such a compound as Easton's syrup. Frankly, I do not like these concentrations, mainly because in not a few instances they lack the finish and aroma of the official ones, and, secondly, on account of legal difficulties which may arise from their use.—Yours, etc.,

FRANK ENGLISH (4/8).

## Gift Schemes

SIR,—At a meeting of the Coventry Branch of the Retail Pharmacists' Union, held recently, it was unanimously resolved to appeal, through the courtesy of your columns, for every Branch to take concerted action to put an end to free gift trading. At the same time the Branch desires to record its protest against the increasing habit of wholesale houses in sending unordered goods for sale or return. Both these practices are regarded as an unmitigated nuisance and burden on the craft.—Yours faithfully,

CHAS. H. WELTON, Secretary.

## Assistants in Northern Ireland

SIR,—Through your widely circulating columns the writer would like some information as to the assistant's qualification of the Pharmaceutical Society of Northern Ireland. The Pharmaceutical Society of Ireland make the matter clear, but the Northern Ireland Society do not seem to interest the craft in the matter. When the one-man pharmacy (and most of us own such) is required to have a qualified pharmacist always on the premises, it seems a pity the Society have no list of qualified assistants as there is in Dublin. We prefer one of these to a qualified man who has passed the modified, as in very many cases modified men have no knowledge of chemistry, surely necessary to intelligent compounding. Perhaps the secretary of the Northern Ireland Society will say what are the subjects, fees and times of the examination for an assistant, which enables such a one to take charge during the temporary absence of the employer.—Yours faithfully,

L. P. S. I. (29/7).

## The Fairness of Price Protection

SIR,—The complexity of modern society—with a small "s"—demands that the legislator should indulge in a full measure of reflection if he is to digest thoroughly his gigantic meal of evidence provided by the numerous committees upon which he finds himself. Your editorial reference (p. 158) to the forthcoming report of the Departmental Committee on price protection awakens memories of the past, a modicum of thankfulness for the present, and some hopes and some fears for the future. The present generation knows naught of the struggles and anxieties of the chemists in the days when the cutters stole business by underselling goods bearing marked prices. It does, however, experience the benefits resulting from the vigorous action of the late Sir William Glyn-Jones in founding the Proprietary Articles Trade Association. The idea that all business in all kinds of commodities should be regulated only by what is called "the law of supply and demand" is, apparently, ingrained in all strata of the commercial world. The ability to discriminate between times, things and persons does not inhere in committees. It is, therefore, not at all improbable that when the report of which you make mention is available there will arise confusion in respect of the control of the prices of goods having a definite fixed value because they are branded goods, and suitable for being dealt with in accordance with the now well-known principles of the P.A.T.A., and the attempted control of household goods which vary in price according to varying qualities, sources of supply, scarcity or excess, etc. Any action to regulate these goods, unless carried out in a most elastic fashion, will bring upon us many evils. But price maintenance for standardised products is an aim that should receive the support of all who appreciate the complexities of modern life.—Yours, etc.,

LONG VIEW (4/8).



### Coupons as Discount

SIR,—The suggestion of Mr. H. G. Tibbett (*C. & D.*, July 25, p. 135) that instead of including free gifts in the packages, customers should be given a postcard to send for the gift would meet the objections of those chemists who already have a stock of the goods, but I do not think it would appeal to many manufacturers, for two reasons. First, because the postcard scheme would throw the work of distributing these free gifts on themselves, whereas now the chemist does it for them when he sells the goods; and secondly, because by including the gift in the package the chemist is obliged to order a fresh stock if he wishes to participate in the scheme. In this the manufacturers show themselves fully cognisant of the weakness of the average chemist, who is afraid that if he does not advertise the scheme a competitor will, and therefore he might lose a certain amount of custom. As far as the protected price is concerned, it seems to me that the inclusion of a gift which has a monetary value if it were sold separately amounts to a discount to the purchaser of the packet, or if looked at from the consideration that the cost of the article is lowered by the value of the gift it is equivalent to a price cut, and should not therefore be permissible under the P.A.T.A. rules. This method of giving goods away instead of selling them is spreading in all directions. This week I have seen the windows of a bazaar placarded with advertisements for sixpenny films, developed free; this is a decided cut on the P.D.A. price of 6d. a spool, whether four or eight exposures. Some dealers have a system of charging nothing for developing when the negatives turn out not to be worth printing; following this method one would expect any shop which develops films for nothing in the ordinary course to give a fresh spool free of charge where the exposures prove to be failures. And this reminds one of the proposed abolition of the discount clause in the N.H.I. contract, which besides being objected to by chemists has now been condemned by the British Medical Association at their conference at Eastbourne (*C. & D.*, July 25, p. 88). If it were permissible to give a bonus on panel scripts, it is a certainty that in a short time we should see the gift coupon system adapted to it, with appropriate advertisements.—Yours faithfully,

OVIS (1/8).

### Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

#### Profit

I can assure "A. L." (*C. & D.*, July 18, p. 84) that I know exactly what is my profit each year. If I did not my friend, the local income tax assessor, would very promptly want to know the reason why. For "A. L.'s" information I may state that my net profit for the year 1930 was 29 per cent. on turnover, and this despite the fact that I employ no girls or other cheap labour.—*Stick at Nothing* (20/7).

#### Deterioration of Stock

When a contributor to your issue of June 20 (p. 721) suggests that the cost of stock which has to be destroyed owing to deterioration should be written off as a loss, and the amount distributed over the charges for dispensing, he raises a very interesting problem though at the same time a very wide one. Unless a universal tariff could be fixed for private prescriptions averaging the charges fairly effectively for all districts, different conditions would arise for each individual pharmacy; some drug which is dispensed frequently in one town may hardly be required at all in another, so that the necessity to keep a small supply and to keep it fresh may cause continuous loss in the latter case. Then there is the habit of prescribers of ordering some drug to nearly every patient for a time and then suddenly to drop it in favour of something else; the constant repetition of this fills the shelves with more dead stock than anything.—*Pellicule* (29/6).

### Legal Queries

*C. N. B.* (16/6).—The references to ailments in the pamphlet dealing with the pine needle bath preparation would render this article liable to medicine-stamp duty, unless it is an entire drug, i.e., consists of a single ingredient without any admixture whatsoever. In the case of the ointment, liability is incurred by several statements and claims regarding its medicinal properties.

*H. F. S.* (25/6) owns a house which comes under the Rent Restriction Acts and he wishes to obtain possession of it so that it can be occupied by his son, who is married. Can he obtain possession without the necessity of providing alternative accommodation for the present tenant? [If "H. F. S." became the owner of the house before June 30, 1922, and the premises are "reasonably required" for his son's occupation, he need not show that alternative accommodation exists. If he acquired the property after the date mentioned, he must show that alternative accommodation is available unless the court is satisfied that greater hardship would be caused by refusing to make an order for possession than by making it.]

### Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*W. C.* (10/8).—POWDER FOR INEBRIATES.—This is a mixture of heavy magnesium carbonate 70 per cent., and sodium bicarbonate 30 per cent.

*E. J.* (20/6).—HAIR CREAM.—We would suggest the following formula for a thick hair cream:—

White wax	...	...	...	10 parts
Liquid paraffin	...	...	...	130 parts
Distilled water	...	...	...	15 parts
Borax	...	...	...	1 part

Melt the wax in fifty parts of liquid paraffin. Place in a mortar and stir in the remainder of the liquid paraffin. Add the distilled water in which the borax has been dissolved and stir the cream formed consistently until cold.

*K. C.* (29/6).—REMOVING NICOTINE STAINS.—A mixture of equal parts of solution of ammonia and solution of hydrogen peroxide is used to remove nicotine stains from the fingers if the stains are of recent origin. In the case of old stains the following treatment is recommended:—The stain is moistened with a 5-per-cent. solution of potassium permanganate; when dry, the part is moistened with a 5-per-cent. solution of sodium thiosulphate and the latter is allowed to dry. Finally, dilute hydrochloric acid is applied by means of a pledget of cotton-wool.

### Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," August 15, 1881

#### A Poisons Bill Withdrawn

The Use and Sale of Poisons Bill, which, as we mentioned last month, had been introduced into the House of Lords, and which would have brought hellebore, butter of antimony, sulphate of copper, the acids, etc., into the first part of the Poisons Schedule of the Pharmacy Act, has been withdrawn for the present. A deputation from the Council have had interviews with the Duke of Richmond and Mr. Chaplin, who had prepared the Bill for the Lincolnshire Agricultural Association, and, it is understood, have expressed their willingness to accept the Bill if the poisons are transferred to the second part of the Schedule.





[Commenced C. & D., July 5, 1924]

**Valerian Oil.**—Valerian oil is obtained by the distillation of the roots of *Valeriana officinalis*, which occurs in Northern and Central Europe and in Asia. This plant is the Dutch and Thuringian root which is found in Europe, but a much larger yield of a very similar oil is obtained from the Japanese plant, *Valeriana officinalis*, var. *angustifolia*. European roots yield from 0.5 to 1 per cent. of oil, whilst Japanese roots yield up to 8 per cent. The two oils have the following characters:—

	European	Japanese
Specific gravity ..	0.920 to 0.960	0.965 to 1.000
Optical rotation ..	-8° to -15°	-20° to -35°
Refractive index ..	1.4840 to 1.4868	1.4775 to 1.4875
Acid value ..	12 to 55	1 to 20
Ester value ..	55 to 100	90 to 135

The oils are very similar and may be used indiscriminately. According to Oliviero, some European oils which he examined, having abnormally low specific gravities—0.875 to .900—contained pinene, limonene and camphene, borneol and its formic, acetic and isovalerianic esters, terpineol, and probably a sesquiterpene, a sesquiterpene alcohol and a crystalline bivalent alcohol melting at 132°. Bertram and Gildemeister examined the Japanese oil and found pinene, camphene and dipentene, borneol, bornyl acetate and bornyl isovalerianate, a sesquiterpene, an unidentified blue oil and kessyl acetate. Valerian oil is used considerably on the continent as a popular cholera remedy, and to a certain extent in soap perfumery. Schimmel & Co. have distilled an oil from a parcel of Mexican root, having a specific gravity of 0.949 and being optically inactive. It had an unpleasant odour of valerianic acid and appeared to consist mainly of hydrated valerianic acid.

**Valonea** is a tanning material obtained from the valonea oak (*Quercus Aegilops*, Linn.), widely distributed throughout the forests of Asia Minor and the Greek Peninsula. It is a handsome tree differing from the English oak in several respects: it is generally smaller, and the lobes of the leaves are much more sharply pointed. The chief difference is in the fruits, which are much larger than those of the English oak, while the cup is covered with a mass of scales, known as the "beard," growing to a length of about an inch, and curving over to envelop the acorn. The valonea of Anatolia is reported to be the best, containing as high as 37 per cent. of tannin, while the tannin content of that produced in Greece does not exceed 30 per cent. The oak forests which produce the valonea of Turkey are situated in Western Anatolia, principally in the Meander River basin, along the eastern shore of the Sea of Marmora and elsewhere. The trees are not planted or cut, but are found in the forests as natural growths, one of the results of a fortunate combination of soil and climate. Lack of rainfall invariably damages the crop, as a great deal of moisture is required to assure a large harvest of good quality. The fruits ripen in September, and are harvested by plucking by hand in the case of those on the lower boughs, the remainder being beaten down by means of long poles. When the weather is dry the fruits are allowed to remain on the ground until the neighbouring trees have been harvested. The cups are then collected and spread out in the sun in a layer about six inches deep to dry. In favourable situations the trees each yield annually from 2 to 8 or even 10 per cent., but on the hills the yield is generally less than 5 per cent. When ripe, the cup is very large, and of a deep golden yellow colour tinged with green. On

drying it shrinks to about one-half its original size, loses over half its original weight, and turns to the greyish colour of the material as it occurs in commerce. During drying many of the acorns fall out, and are removed and used for feeding live stock. The greater part of the beard also becomes detached from the cups and is sometimes removed and sold separately as "tirnac" or "trillo." As the beard is richer in tannin than the cups, buyers have to exercise care that consignments contain the proper amount of beard. The dried cups are transported by camel and train, largely to Smyrna, and sold by sample to merchants, who require great skill and experience as the estimate of quality of large consignments has to be judged from a sample of a few bags only. Valonea is classified into five different grades as follows:—(1) Crible, superior choice (38 to 42 per cent. tannin); (2) Un aqua, medium and superior quality (37 to 38 per cent. tannin); (3) Naturelle, medium qualities (34 to 35 per cent. tannin); (4) Uso Englese, the largest portion of this grade is shipped to England, hence the name (32 to 33 per cent. tannin); (5) refuse (27 to 28 per cent. tannin). The proportion of these grades is:—Crible, 10 per cent.; un aqua, 20 per cent.; naturelle, 30 per cent.; Uso Englese, 25 per cent.; refuse, 15 per cent. Valonea is only used on the better-class leathers now owing to its comparatively high cost, but it is still much used in conjunction with other essential materials in sole-leather manufacturing, where weight and water-resistant qualities are essential. Since the war, however, its place has been partially taken by cheaper materials, such as myrabolans and divi-divi, but these do not give the same quality leather as the valonea-tanned product. It contains a large amount of ellagitannic acid, which decomposes with the formation of insoluble ellagic acid, giving rise to "bloom": this substance, deposited in or on the hide, causes the leather to be dense and heavy. Much valuable information on the subject of valonea has been published from time to time in the Imperial Institute Bulletin—e.g., Vol. X (1912) No. 4 contains an exhaustive article.

**COMMERCE.**—Since 1914 it has been impossible to obtain any reliable figures of the crop or of the exports from Turkey, as Custom House statistics are not available, and shipping companies do not keep statistical records of their shipments. During the war, owing to the impossibility of obtaining supplies, consumers, especially in the United States, endeavoured to replace valonea by chemicals and other substitutes, the use of which continued for some time after the war. The demand is, however, increasing. From the Armistice onwards (from 1919 to 1924) the crop averaged about 35,000 tons, of which 6,000 tons was taken up annually by a local factory, which turned out a valonea extract, trade-marked as "Valex." The balance of the average annual crop during the same period would appear to have been exported as follows (figures in tons):—United Kingdom, 4,000 to 5,000; United States, 7,000; Germany and Scandinavia, 4,000 to 5,000; Russia and Poland, 3,000 to 4,000; Jugo Slavia and Czechoslovakia, 1,000; Roumania and Bulgaria, 1,000 to 1,200; Italy, 1,000; France, 1,000; other countries, 5,000; making a total of from 27,000 to 30,000 tons. Comparing the above figures with those of 1900-14, it is noticeable that the consumption in European markets has fallen off, whereas the United States comes in as a large new and important factor in the trade. It is true that the large reduction is due to the decreased demand from Germany, and what was formerly Russia and Austria-Hungary. In due course the requirements of these countries will probably increase, but it is doubtful whether they will ever attain pre-war level. The following figures (cwt.) show the imports of valonea into the United Kingdom from 1925-1929 inclusive:—

From	1925	1926	1927	1928	1929
Greece .. ..	8,767	22,390	1,276	4,720	4,179
Turkey, Asiatic ..	173,819	89,329	83,245	103,765	99,061
Other foreign countries..	4,726	5,144	9,719	3,785	3,966
	187,312	116,863	94,240	112,270	107,206
£	114,744	66,243	63,553	81,311	59,883



## The C.&D. Commercial Compendium

During 1930 the total imports into the United Kingdom fell to 98,728 cwt., valued at only £43,201, thus showing a continued decline in price also; the sources from which the imports were derived are not available until the Annual Statement of Trade for 1930 is published.

**Valuation.**—In commerce, the process of assessing the value of a business, usually in relation to the purchase or sale of a business or a partnership. The ordinary method is that valuers chosen by each party to the transaction take an inventory of the stock, fixtures or other items concerned; the lists are separately priced and are subsequently compared with a view to agreeing on values. Valuers charge as a rule a commission of 5 per cent. on the first £100 valued and  $2\frac{1}{2}$  per cent. on the remainder, together with out-of-pocket expenses. (*See Goodwill and Stocktaking.*)

**Van Deliveries.**—Roughly, it is possible to divide van-delivery systems into three main groups—motor-vans, motor-cycle commercial side-car combination outfits, and horse-drawn vans or carts. Generally speaking, one motor-delivery van is essential where the district is an extensive one; but there are exceptions. In certain high-class districts horse-drawn vehicles may be preferable. On the other hand, there are distinct advantages in the possession of a motor-van when it comes to collecting goods from railway stations, dock-heads, and so on; the owner is thus saved the cartage charges; he can suit his own time for collection and unloading, and can be assured of the safer transportation of the goods by his own staff. The type of motor-van chosen depends to a great extent upon the nature of the ground over which the delivery service is to extend. A firm in a flat district will need a different class of vehicle from the owner of a business in a hilly locality. Whereas a 8-, 10-, or 12-horse-power car might be suitable for the former, a vehicle of not less than 20-horse-power would be required for roads with frequent steep gradients. With regard to size, the obvious guide will be the extent of the trade, and the length of the daily rounds, while the increased capacity required during the busy season must, of course, be taken into consideration. Vehicles with 30-cwt. chassis, fitted with box-van bodies and pneumatic tyres are probably the most popular among the smaller firms. The purchase of these vans need not necessitate a big initial outlay, for most makers supply on hire-purchase terms. For the trader with a quick cash delivery business there are several excellent small vans with 7-cwt. capacity. For one make it is claimed that the van costs less to operate than a boy and bicycle, while three such vehicles can be in service at less cost than one horse and van. An even smaller commercial motor is now obtainable with a 5-cwt. capacity. For certain types of tradesmen's vehicles fitted with pneumatic tyres, it is worth noting that a saving of £120 can be effected on the purchase price by taking advantage of the War Office subsidy of £40 per annum for three years, in return for which the owner places his van at the disposal of the military authorities in times of national emergency, or, if required, during the summer military manoeuvres. A vehicle which merits the consideration of the small trader is one with a convertible body which it is claimed can be changed from a private tourer to a van or truck in three minutes. Several types of combination outfits (motor cycle and side-van) are now produced, and, having in mind the increased taxation upon the heavier forms of road vehicles there is much to be said in favour of these lighter forms of conveyance. As with the motor vans, certain types of these can be obtained with detachable bodies, and are thus adaptable to business or private purposes. Horse-drawn vehicles are by no means an out-of-date form of transport. For short hauls and frequent halts a horse-delivery van is frequently found more economical. Indeed, some commercial concerns have

entirely returned to horse-traffic for purely economical reasons.

**Vanadium** (symbol V; at.wt.51.2) is a metal of the antimony group. It is obtained from the dichloride, by prolonged ignition in pure dry hydrogen, as a greyish crystalline powder with a strong silvery lustre. It occurs naturally in small quantities in certain iron ores and in some of the Cheshire copper-bearing beds. Its usual occurrence is in the form of vanadate of lead. It burns readily in oxygen or in a flame, is non-volatile, does not tarnish, and decomposes water at 100° C. In hydrofluoric acid it dissolves slowly, evolving hydrogen; in nitric acid it is quickly soluble, giving a blue solution, but it is insoluble in hydrochloric acid. It takes fire in chlorine, forming the tetrachloride. It forms five oxides analogous to those of nitrogen:—(1)  $V_2O$  *vanadium monoxide*, a brown substance formed by exposure to the air. Its formation is accelerated by heat. (2)  $V_2O_3$ , *vanadium dioxide*, is obtained either by reduction of the higher oxides with potassium or from vanadium oxytrichloride. It is a light grey, glittering powder. It burns on heating in the air to form black oxide. It is soluble in nitro-hydrochloric acid, but not in hydrochloric, hydrofluoric or sulphuric acid. It is a powerful bleaching agent, and absorbs oxygen at a very rapid rate. (3)  $V_2O_5$ , *vanadium trioxide*, is a black metallic powder obtained from the pentoxide by burning in hydrogen. It can be reconverted into the pentoxide by exposure to the air when warm. It is not soluble in acids, but a solution can be obtained by the action of nascent hydrogen on a solution of vanadic acid in sulphuric acid. (4)  $V_2O_4$ , *vanadium tetroxide* or *vanadyl dioxide*, can be obtained by partial oxidation of the di- or trioxide, or by reduction of the pentoxide. When obtained from the trioxide it forms shining blue crystals. It is soluble in acids, forming solutions of hypovanadic salts, which can also be obtained by the action of reducing agents on solutions of vanadic acid. A greyish precipitate of hydrated oxide,  $V_2O_4 \cdot H_2O$ , is obtained with the hydrates or normal carbonates of the fixed alkalis. Excess of ammonia gives a brown precipitate soluble in pure water, but insoluble if ammonia is present. It forms hypovanadates with the more basic metallic oxides. (5)  $V_2O_5$ , *vanadium pentoxide* or *vanadic oxide*, can be prepared from natural lead vanadate by dissolving in nitric acid. Precipitation by hydrogen sulphide removes the lead and arsenic and reduces the pentoxide to the tetroxide. The residue after evaporation is digested with ammonia. A lump of sal ammoniac in the solution will precipitate ammonium vanadate as a scarcely soluble white powder. The ammonia is then expelled by heat. Vanadic oxide has a reddish-yellow colour. It is soluble in water and in the stronger acids, yielding in some cases vanadic salts by spontaneous evaporation. It also unites with bases to form salts known as vanadates. Orthovanadates may be obtained by fusion with alkaline carbonates by elimination of three molecules of carbon dioxide. Meta- and pyro-vanadates are formed analogous to the meta- and pyrophosphates. There are also two series of acid vanadates. There are three chlorides—the tetrachloride,  $VCl_4$ , the trichloride,  $VCl_3$ , obtained by decomposition of the tetrachloride, and the dichloride,  $VCl_2$ . The oxychlorides are four in number— $VOCl_3$ ,  $VOCl_2$ ,  $VOCl$ , and  $V_2O_5 \cdot Cl$ . Two sulphides analogous to the tetroxide and pentoxide are known. The mononitride is obtained from the compound of oxytrichloride and ammonium chloride by heating in a current of ammonium gas, and the dintride by using the same process but at a lesser temperature. Vanadium compounds heated with borax give a clear colour in the outer flame in small quantities, turning yellow with larger quantities. In the inner flame the colour is a fine green. The red solution of vanadic acid can be distinguished from that of chromic acid, as on deoxidation vanadic acid turns blue and chromic acid turns green. The presence of as little as 1 part in 40,000 of vanadic acid in a solution can be detected by shaking with ether containing hydrogen peroxide. The aqueous solution acquires a red colour, while the ether remains colourless.



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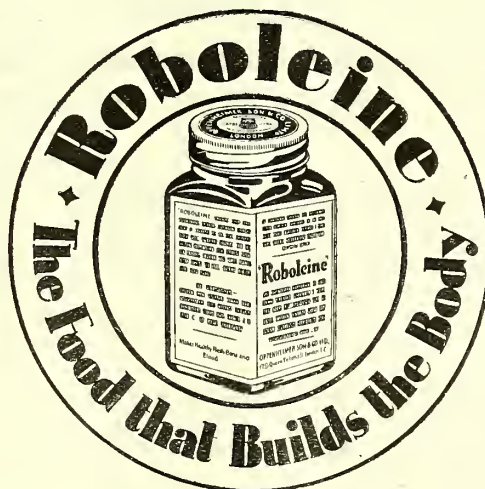
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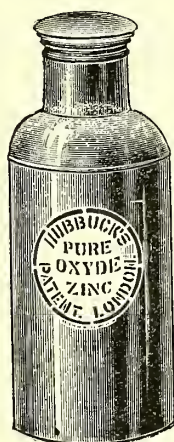
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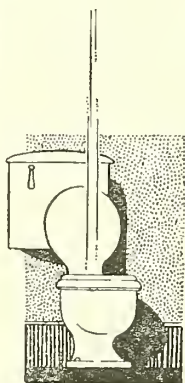




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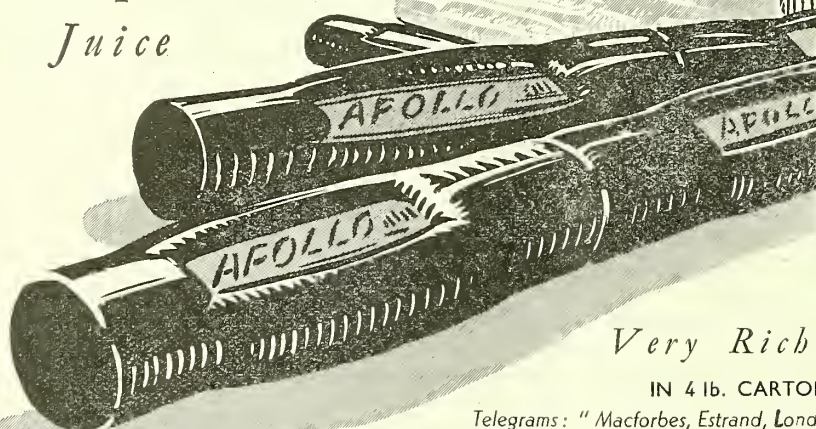
Telegrams :  
Harp, Blackley, M/c.

Telephone :  
Cheatam Hill 2853



# APOLLO

*Pure  
Liquorice  
Juice*



The concentrated extract of the finest selected Liquorice Root. It is very soluble, high in glycyrrhizin, and free from grit and other impurities.

Guaranteed absolutely without adulteration of any kind. Will not get sticky or lose its shape under any climatic conditions.

An article of this high grade will do credit to the Chemist who stocks it.

*Very Rich in Glycyrrhizin*

IN 4 lb. CARTONS. 28 IN A CASE.

Telegrams: "Macforbes, Estrand, London." Tel. No: Temple Bar 5392

MACANDREWS & FORBES, LTD.

BUSH HOUSE LONDON WC 2

**ACID  
SALICYLIC**

**Warrington Chemical & Drug Co. Ltd.**

Paddington, nr. Warrington

Telegrams: "Salicin, Warrington."

**SODA  
SALICYLATE**

**PHOSPHATE OF SODA, Pure**

For Food Purposes  
ASK FOR SAMPLE AND PRICES

**PERRY & HOPE, LTD.**

Forth and Clyde Chemical Works, NITSHILL.

Telephone: Giffnock 414 (2 lines).

Telegrams: "Perryope, Nitsbill."

**DUTCH DROPS**

The Original HAARLEM OIL

Also in Capsule Form.

*Class Villy*  
We are Sole Distributing Agents for the British Isles, British Colonies, Scandinavian Countries, Spain and South America.

**BROOK, PARKER & CO., LTD., BRADFORD**

## QUININE

QUINIDINE  
CINCHONINE  
CINCHONIDINE

Sugar-coated Quinine Tablets and Pills.

and

## SALTS

Gelatine-coated Oval Pills.

**BANDOENG  
JAVA**

**BANDOENG QUININE FACTORIES**

**AMSTERDAM  
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Telegrams: "Kininefabriek Bandoeng."

Samples, prices and particulars on application.

Telegrams: "Semadmy Amsterdam."



# BOOTS PRODUCTS IN MODERN THERAPY

Address all enquiries to:  
WHOLESALE & EXPORT DEPT.

**BOOTS PURE  
DRUG CO., LTD.,**

MANUFACTURING CHEMISTS AND  
MAKERS OF FINE CHEMICALS

**NOTTINGHAM—ENGLAND**

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ACRIFLAVINE—(BOOTS)  
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FLUID LIVER EXTRACT  
(BOOTS)  
GONOCOCCUS VACCINES  
(BOOTS)  
HEXYL-RESORCINOL  
(BOOTS)  
INSULIN—(BOOTS)  
LIVER EXTRACT—(BOOTS)  
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(BOOTS)  
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(BOOTS)  
QUINANIL—(BOOTS)  
REINFORCED COD-LIVER  
OIL—(BOOTS)  
BISMOSTAB. ORARSAN.  
CHOLUMBRIN. OLIVITA.  
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SULPHOSTAB. THIOSTAB.  
ANTI - PNEUMOCOCCUS  
SERUM—LEDERLE  
(FELTON'S SERUM).



# Hydroquinone 'MERCK'

E. MERCK DARMSTADT



# E. MERCK

**H. R. NAPP LIMITED,**  
3 & 4, Clements Inn,  
LONDON, W.C.2.

Telegrams :  
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## It will pay you to stock them!

When the public demand goods bearing a specified name the wide-awake retailer prepares to meet that demand and so reap the benefits which follow.

**IGLODINE** has become a household word, and the public, through satisfaction which comes after trial, are demanding **IGLODINE PREPARATIONS**. Are you the retailer who is preparing to meet the demand?

# Iglodine.

The Safe and Sure Antiseptic

Write to-day for full particulars to :

**THE IGLODINE CO., LTD.** - Newcastle-on-Tyne.

## "HYPROX" TABLETS

**SOLID PEROXIDE OF HYDROGEN** 33%  $H_2O_2$

*Many advantages over the liquid.*

**GREATER UTILITY, HANDINESS, NO WASTE, ACCURACY OF DOSE, LESS BULK, MANIFOLD USES.**

*Entirely Free from Mineral Acid. Perfectly Stable for any period.*

**SALES INCREASING. YOU WILL BE ASKED FOR THIS ATTRACTIVE SHOW MATTER and PAMPHLETS** supplied with 1 doz. Sample Bottles.

**BOTTLES 9d and 1/3 GENEROUS TRADE TERMS.**

*Further Particulars and Price List of all Lines on request.*

**BUCKLEY-BOWKER TABLET Co., Ltd.**

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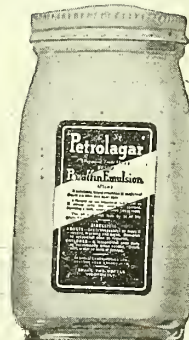
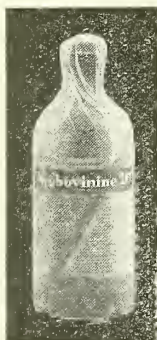
## 'NEOBOVININE 20' 'PETROLAGAR' BRAND PARAFFIN EMULSION

A steady profit is assured by stocking these two products, which are being continuously presented to the medical profession by the well trained 'Petrolagar' Laboratory Company's Representatives.

*Doctors prescribe them regularly. Order from any wholesaler.*

**PETROLAGAR LABORATORIES LIMITED**  
BRAYDON ROAD LONDON, N.16

PHONE: CLISSOLD 7572





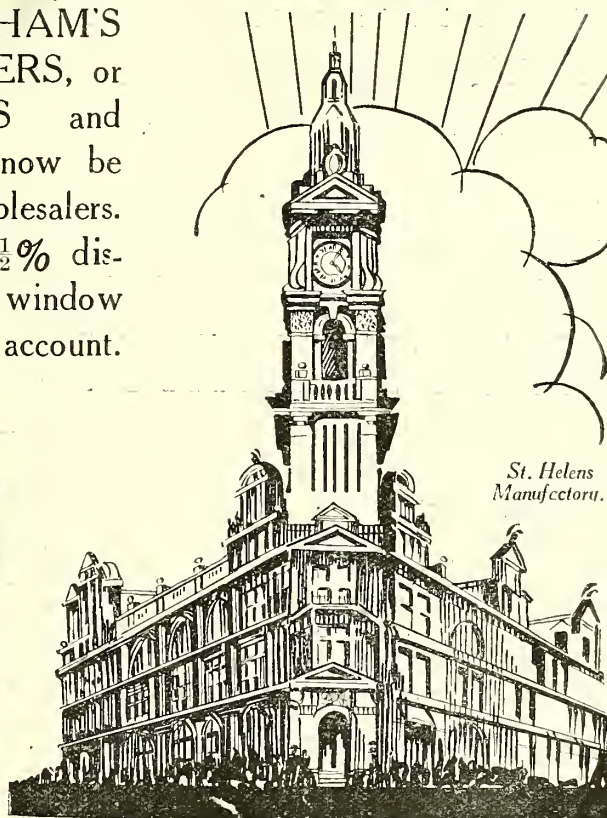
# TWO DAILY SELLERS

**£3 PARCELS  
NOW AVAILABLE**

**BEECHAM'S  
PILLS  
BEECHAM'S  
POWDERS**

CHEMISTS and Druggists should note that £3 parcels for either BEECHAM'S PILLS or BEECHAM'S POWDERS, or assorted BEECHAM'S PILLS and BEECHAM'S POWDERS, can now be obtained direct or through their wholesalers. These £3 parcels carry the usual 2½% discount and a further 5% discount for window display—carriage paid—Monthly account.

**NOTICE—ALL ORDERS FOR  
BEECHAM'S PILLS AND  
BEECHAM'S POWDERS  
SHOULD BE ADDRESSED  
TO**



**BEECHAM'S PILLS LTD.**  
**ST. HELENS, LANCs.**

Telephone: 1230 St. Helens

Telegrams: Beecham St. Helens.



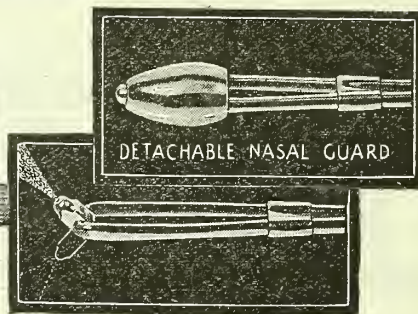
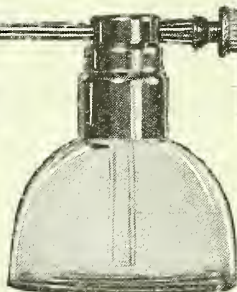
# DeVilbiss

## SPRAY N°15

You can sell this beautifully finished and thoroughly efficient DeVILBISS Spray to your customers with confidence, because it is made with truly scientific precision and in strict conformity with the recommendations of medical science.

Display DeVILBISS Sprays conspicuously—they not only sell themselves, but also stimulate the sale of the solutions used in them.

DeVILBISS Sprays are widely prescribed by doctors—be in a position to meet the demand promptly.



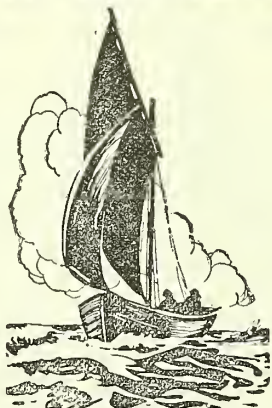
Note the adjustable gold tip for spraying in any direction.



CVS—24

AEROGRAPH CO. LTD., 43 Holborn Viaduct, London, E.C.1. Sole Distributors of DeVILBISS products in the U.K.

## YOUR HOLIDAYS !



**WE WISH YOU A HAPPY & CARE-FREE TIME AND FINE WEATHER**

*Just tell your locum for the lines he MUST have, to ring up or write*

**"NEWBERYS"**  
(F. NEWBERY & SONS LTD)

CARDIFF  
Tredgar  
House,  
Hope St.

**CHARTERHOUSE SQUARE**  
**LONDON, E.C.1**

LIVERPOOL  
College  
Lane

## ROBUVAL

*Elixir Strontii  
Bromid. et Valerian  
Deodorat.*

**AN EXTREMELY PALATABLE  
CALMATIVE & NERVE SEDATIVE**

**8 OZ.  
BOTTLES 3/6**

*Prepared and  
extensively advertised by*

**ROBERTS & CO.**

Pharmaciens,

**76, NEW BOND ST.,  
LONDON, W.1,**

*and at PARIS.*





# MID-SUMMER ADVERTISING. 'ASPRO' POLICY OF PROGRESS

Strong as Ever! That's our advertising slogan for this summer. Although we increased our advertising last winter—and summer is not generally considered the right time to have a large advertising appropriation, we are definitely carrying out our policy of maintaining "full winter advertising schedule" during this summer. What's more, we hope to increase this again next winter. So you see, our claim of continuous advertising activity is a demonstrated fact. All chemists have to do to obtain the full benefit of this continuous flood of sales producing publicity, is to keep on showing window display material. The "longer you show" the more business you obtain from the advertising—just the same as if you had your name at the foot of the advertisement.

**ADVERTISING MATTER ALWAYS AT YOUR DISPOSAL**  
We still have a supply of our new summer window show, stickers, etc. We will gladly send you a supply on receipt of a postcard. We also have in course of preparation an entirely new window display for the coming autumn.

By the way, do you know that **YOU CAN OBTAIN 17% MORE PROFIT BY BUYING 'ASPRO' ON BONUS TERMS?**

**ORDER 'ASPRO' ON BONUS TERMS  
FROM YOUR WHOLESALE NOW**

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents: **GOLLIN & CO. PTY. LTD.** ('Aspro' Dept.)  
**SLOUGH, BUCKS.** Telephone: **SLOUGH 608**

Made by **ASPRO LTD., SLOUGH, ENGLAND** **ASPRO**  
No proprietary right is claimed in the method of manufacture or the formula. **REG. TRADE MARK**

**DISPLAY 'ASPRO'  
PROMINENTLY AND IT  
WILL SELL ITSELF**



**INCRETONE, 6 OZ.**

(G. W. CARNRICK CO.)

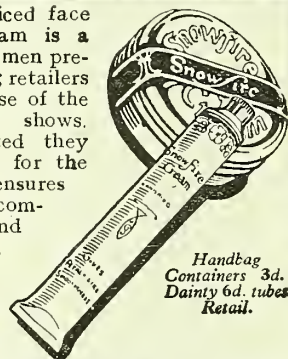
□ □ □ □

**A LIQUID  
ENDOCRINE TONIC**Now being extensively advertised to  
the Medical profession.

□ □ □ □

Obtainable through all wholesalers or direct  
from the agents—**BROOKS & WarBURTON, LTD.**232-240 VAUXHALL BRIDGE ROAD  
LONDON, S.W.1**BLONDES *and*  
BRUNETTES  
PREFER****Snowfire  
CREAM**

Of all the popular priced face creams, Snowfire Cream is a real "Best Seller." Women prefer this fragrant cream; retailers like to handle it because of the satisfactory profits it shows. Once sales are started they develop automatically, for the merit of the product ensures repeat orders and recommendations. Stock and display Snowfire Cream.



Manufactured by  
F. W. Hampshire & Co.  
(1927), Ltd.  
Sunnydale Works, Derby.

Handbag  
Containers 3d.  
Dainty 6d. tubes.  
Retail.

**Memo :****RE-ORDER  
ZAM-BUK**

Sole Proprietors : C. E. Fulford, Ltd., Carlton Hill, Leeds.

*Ornament & Medicinal Soap***CACHETS "FINOT"**

(White or Coloured)

With inscriptions in any desired  
tint; also Plain or Embossed.

"A distinction all their own."—C. & D.

"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia  
and other powders.

COOPER SON & CO. LTD., 80 Gloucester Road, SOUTH KENSINGTON.  
In 17 Sizes to fit the various types of Cachet Machines.

**IRWIN'S GOLDEN****FOOD PRODUCTS:**

16 COLLEGE RD.,  
EASTBOURNE, SUSSEX

Olive Oil Emulsion,  
without malt - - 3/6  
Original Golden Food 1/9  
Honey & Almonds - 1/9  
Skin Food and Hair  
Food - - each 3/-  
*Attractive Containers. Booklets Free*

**BESORBON**

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE  
FINEST REMEDY FOR CATARRH AND  
COLD IN THE HEAD.

Richard Dickeson & Co. (Incorporated with Reynolds, Sons & Co., Ltd.)  
57-59 CHARTERHOUSE STREET, LONDON, E.C.1

**NEPENTHE****THE SAFEST AND BEST PREPARATION OF OPIUM.**

The word "Nepenthe" is registered under the Trade Marks Act, and is our exclusive property. No substitute may be dispensed  
when "Nepenthe" is ordered in a prescription. "Nepenthe" comes within the regulations of the Dangerous Drugs Act, 1927.

**FERRIS & COMPANY, LIMITED, BRISTOL.**



# "One Sale Makes Many"

BECAUSE it is a dependable product, active to the last drop, P., D. & Co. Peroxide brings customers back again for more. Such satisfied regular customers constitute a valuable business asset, especially as they are the kind that prefer quality to quantity.

Use this customer-holding and profit-making peroxide to your advantage. It is an excellent line to buy on the special terms available. Ask our representative for particulars, or write to us for them.

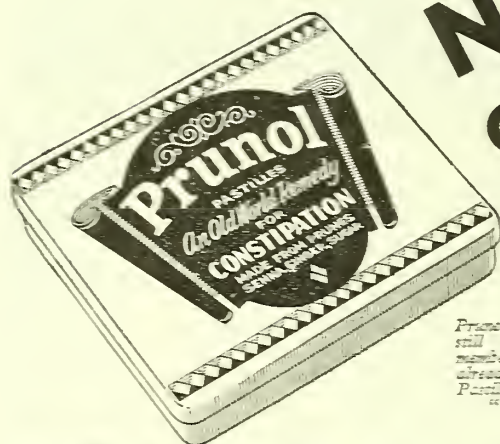
PARKE, DAVIS & COMPANY  
50 Beak St., London, W.1

## HYDROGEN PEROXIDE

SOLUTION  
(PARKE, DAVIS & CO)







**NOW  
CRYSTALLISED**

This new Prunol product is destined to create sensations in the proprietary laxative market. Prunol Crystallised Pastilles have the full, rich flavour of delicious fruit. They relieve Constipation naturally and surely, without the slightest upset. National Press and sampling campaigns will cause instant demands. Order now! Retail price 1/3. Chemists' price 11/3 dozen. Bonus of one tin to every dozen on initial orders sent DIRECT with name of wholesaler. Display matter, bottle-wrappers, etc., free on request:

*Prunol old-style Pastilles will still be available for those members of the Public who already use and like them. New Pastilles will be plainly labelled "CRYSTALLISED."*

**PRUNOL PRODUCTS LIMITED**  
21 Cockspur St., London, S.W.1

## PRUNOL CRYSTALLISED PASTILLES

## PURE ORANGE WINE

### A. MILLAR & CO., LTD., DUBLIN

VINUM AURANTII B.P. Prepared in strict accordance with the Formula of the British Pharmacopoeia. (Wholesale only.)  
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

### "LOCKSAL"

MEDICATED BATH SALTS

The New Brine Bath Idea

for Rheumatism, Gout and all Kindred Affections  
are being advertised in the public and are recommended by the Medical profession. Neatly packed. Good results. Your usual wholesaler can supply. Advertising matter and samples will gladly sent on request.

Special terms from the manufacturer

"LOCKSAL" 85 PRINCESS STREET, MANCHESTER

### DRIED MILK

Large buyers of Full Cream, Half Cream, Separated, Milk Sugar, Whey Powder, Soluble Milk Cassin, are invited to apply for samples and quotations, stating probable requirements. Eight Creameries in Dorset, Somerset and Wilts.

PRIDEAUX'S LTD., MOTCOMBE, SHAFTESBURY, DORSET

ESTABLISHED 1793.

The Best and  
Safest Infants'  
Medicine of  
over 130 years'  
standing.

**ATKINSON & BARKER'S**  
**INFANTS' PRESERVATIVE**

Does not  
contain  
any  
Scheduled  
Poison.

ROBERT BARKER & SON, LTD., 13 WESLEY STREET, C. on M., MANCHESTER



# DO YOU STOCK URODONAL?

*The Remedy  
for  
Rheumatism*

Did you see our recent displayed advertisement in the National Dailies? They will be followed up shortly by an extensive campaign for Urodonal and other Chatelain Remedies. Get your share of the boom that's bound to come!



3/-, 5/-, & 12/- bottles.  
LIBERAL DISCOUNTS.

# URODONAL

Sole Concessionaires: SPENCER & CO.  
20 Queen Street, Hammersmith, LONDON, W.6

## You take the Profit We do the Work!

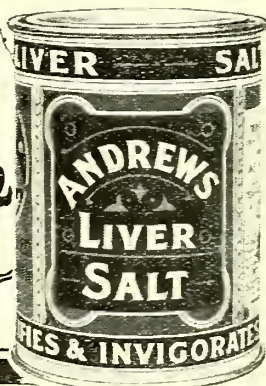
You simply say, "We will get it for you." Our customers will wait. They prefer to order through their local chemist if he is willing to oblige.

We cannot expect you to stock all our lines; we simply ask you to offer to obtain by return—the same as your competitor is doing.

A postcard or telephone call (East. 3644) will put money into your pocket. All Wholesalers hold stocks. Trade Terms on request.

**Shadforth Prescription Service**  
63 Grove Road, Bow, London, E.3 LTD.

*The Saline  
with the  
largest sale*



*The Clean  
Disinfectant*

# 'SUPERLIN'

*adopted by Hospitals  
and local Authorities*

*Write for prices and details to enable  
you to tender for supplies. Supplied  
in bulk and in various packages*

WRIGLEY, PATERSON & CO. LTD.  
Superlin Works, Isleworth, Middlesex



# Petroleum Jelly

White, Yellow, Amber,  
& Ruby Red, for all  
Pharmaceutical and  
Veterinary purposes

**MEADE-KING, ROBINSON & CO., LTD.**

22 Water Street  
LIVERPOOL.

523 Salisbury Hse.  
Finsbury Circus  
LONDON.

Deansgate Arcade  
MANCHESTER.

Martineau Street  
BIRMINGHAM.

Wellington  
Chambers  
LEEDS.

*Bleached  
White  
B.P.*

**BEE SWAX**

*Refined  
Yellow  
B.P.*

**POTH, HILLE & CO., LTD.**

6 Lloyd's Avenue, London, E.C.3.

*Works at Stratford, E.*

**METHYLATED SPIRITS**  
*and*  
**FINISH**

FINEST OBTAINABLE  
PROMPT DELIVERIES



**J. M. Mills Ltd**

BROOKFIELD DISTILLERY  
STOCKPORT

*Telephone: Stockport 2396  
Telegrams: "Phone, Aniline"*



**PETROLEUM JELLIES**

WHITE, LEMON, YELLOW, AMBER, RED, GREEN.

**WHITE & COLOURED OILS**

YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

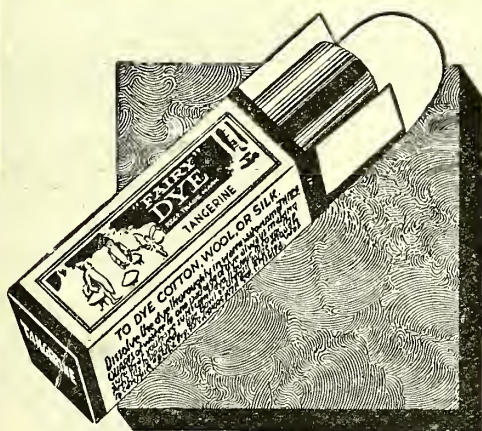
**LIQUID PARAFFIN**COLOURLESS, TASTELESS, ODOURLESS.  
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

*Wholesale Trade only.***STERNS LTD.**

Royal London House, Finsbury Sq., London, England

Telegrams: "CENTUMVIR, TELEW, LONDON."

LONDON DEPOT:  
292 UPPER STREET, ISLINGTON, N.1

FAIRY DYES, LTD., GLASGOW, N.W.

***Fairy Dyes*****It pays to  
Concentrate  
on  
Advertised goods****FAIRY DYES**

are well advertised in the National Press and Ladies' Journals. They meet with a large and steadily increasing demand.

Sold at the popular price of 2d. per tube retail—attractively packed. 31 shades and colours.

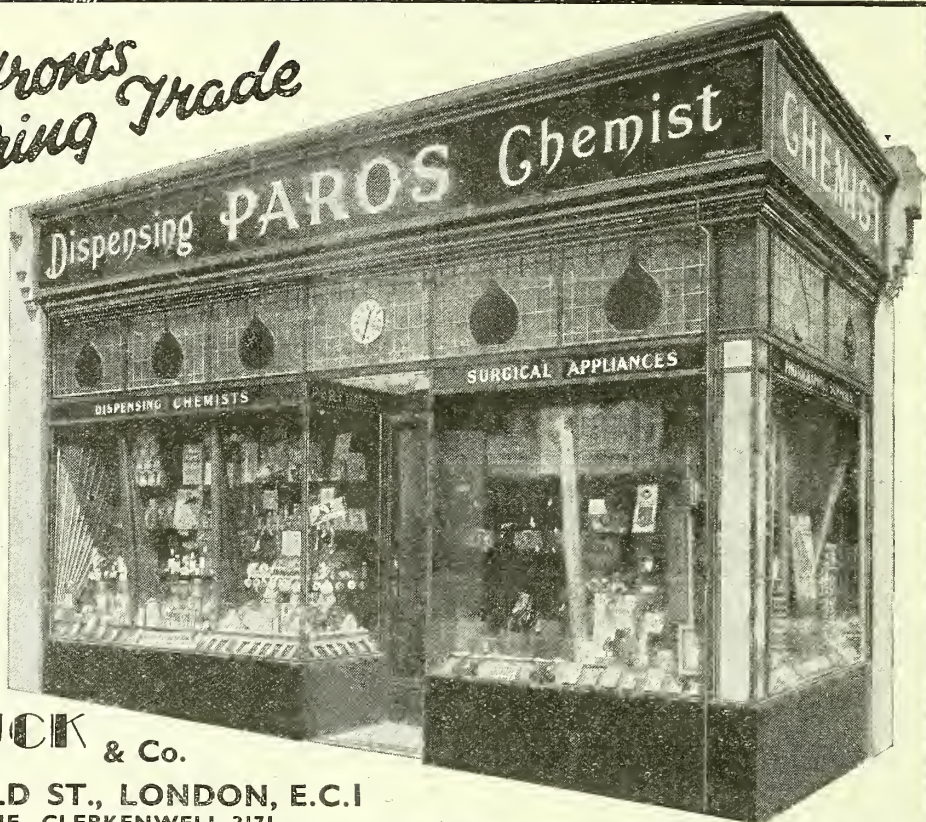
See that your stocks are up-to-date.



*Shop Fronts  
that bring Trade*

Ask our Representative to call. We prepare Drawings and Specifications Free of charge to you and without obligation.

Before buying your Shopfittings visit our Showrooms. Over 400 Fittings, Counters and Showcases to select from.



**RUDDUCK & Co.**  
SHOPFITTERS  
219 & 227 OLD ST., LONDON, E.C.1  
TELEPHONE CLERKENWELL 3171



*Now in*  
**POWDER**  
*and*  
**DOUBLE**  
**STRENGTH**

**DRUMMER  
DYES**



*are in*  
**GREATER  
DEMAND  
THAN EVER**

*No increase  
in price...4<sup>p</sup>*

EDGES • BOLTON • LANC'S

**IF YOU WANT GOOD  
BOTTLES, LET  
ME QUOTE**

I make bottles of every description for Drug Trade purposes—machine or hand-made. Clean, well-shaped, accurate bottles, made in a modern factory equipped with the latest machinery.  
*I INVITE YOUR ENQUIRIES.*

**FREDERICK HAMPSON**  
PERSEVERANCE GLASS WORKS,  
SALFORD, LANC'S.

Telephone : 1018 Trafford Park  
Telegrams : "Attention, Salford"

Established  
1851



*Medicinal**Liquid Paraffin B.P.**Sp. Gr. 885/890. Viscosity 100°f. 300 sec.**(Redwood)**Write for quotations*

**REDDGRAVE SITORA LTD.**  
UNITED WHARF SILVERTOWN, LONDON, E.16.

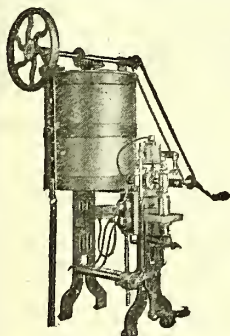
*Have you  
tried our**Galenicals?**Write for latest Drug List. Special  
contract terms for**Sodium Sulphate B.P.**Magnesium Sulphate B.P.*

## Roberts' Original Patent BOTTLE FILLING MACHINES

The record makers in speed filling with cleanliness. Foot-Operated Machines. From £5 5s. Hand-Operated Machines. From 36/-

Soundly constructed, simple in action, easy to clean.

### NEW PATENT SHALLOW TIN FILLING MACHINES



"ROYAL"

Automatic CAN FILLING  
MACHINES, MIXING  
MACHINES, CORKING  
MACHINES.

NEW PATENT ACCESSOR-  
IES TO "NELSON,"  
"VICTOR" and "NAVY"  
BOTTLE FILLING  
MACHINES enable them to be  
used as Vacuum Fillers, Gravity  
Fillers or Pressure Fillers at will.

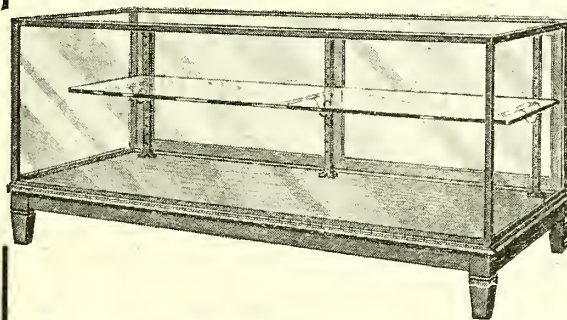
WRITE TO-DAY TO

**ROBERTS' PATENT  
FILLING MACHINE CO.**

33 Roundcroft Street, BOLTON, LANCs.

*All rights reserved.*

## GLASS COUNTERS BRING MORE TRADE



No. CD/SF 2920. A soundly constructed Display and Serving Counter made in our own works at Holloway Road—6 ft. x 3 ft. x 2 ft. oak or mahogany framing, glazed new  $\frac{1}{4}$ " drawn plate glass top, front, and ends. Clear glass sliding doors at back. Interior fitted 1 row of shelves 12" wide, brown bronze bars and brackets.

## DEFERRED TERMS.

An initial payment of 18/10 secures this counter, and 11 further equal monthly payments of the same amount make it your own complete property.

**£10-15-0**

Cash Price. Ex. Works.

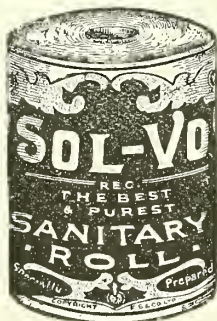
Send for our New List No. C.D.1260.

**DUDLEY & COMPANY LIMITED**

451 HOLLOWAY ROAD, LONDON, N.7

City Showrooms: 65-66 FORE STREET, E.C.



**SOL-VO SANITARY ROLLS & PACKETS.****SOL-VO**

REGD

THE BEST &amp; PUREST

**SANITARY PAPER**

			per doz.				per doz.
Three dozen Rolls	...	7/-	net.	Three dozen Packets	...	10/-	net.
Half gross	"	6/6	"	Half gross	"	9/6	"
One gross	"	6/-	"	One gross	"	9/-	"
Five gross	"	5/3	"	Five gross	"	8/3	"

CARRIAGE PAID. CASES FREE.

**FORD, SHAPLAND & CO. Ltd.**LABELS & SHOWCARDS — PRINTERS — CARTONS & ENVELOPES.  
GT. TURNSTILE, HIGH HOLBORN, LONDON, W.C.1

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TELEPHONES: HOLBORN 4695 (3 Lines)

**A CENTURY'S EXPERIENCE**

**CALENDER SPREAD RUBBER ADHESIVE PLAISTERS**

OF EVERY DESCRIPTION

Samples and prices gladly sent on request to—

**WILLIAM MATHER, Ltd.**  
DYER STREET, HULME,  
MANCHESTER

Incorporating MACE & HALDANE, Ltd.  
39 Mitchell St.  
London, E.C.1

**"STERAID" Regd. Dressings**Patent No. in Great Britain  
221761/1924 and patented in all  
the principal foreign countries.Patent Rotating Canister packing to retain aseptic conditions. In use, only  
the amount required is withdrawn and cut off. The remainder is not exposed.

GAUZE.				LINTS.			
Minimum Public Prices Each	Minimum Trade Prices Per Doz.	Minimum Public Prices Each	Minimum Trade Prices Per Doz.	PLAIN and BORIC.	Min. Public Prices	Min. Trade Prices	
6-yd.3-yd.1-yd.	6-yd.3-yd.1-yd.	6-yd.3-yd.1-yd.	6-yd.3-yd.1-yd.	2 in. wide	1/1 each	9/6 doz.	
Sal Alembroth	1/11 1/2 - 7 1/2	17/3 10/6 5/7 1/2	Plain Absorbent	4 "	1/7 1/2 "	14/7 "	
Sublimatc			Double Cyanide	6 "	2/2 "	19/8 "	
Carbolic			Iodoform 5%	Approx. 6 yds.	Plain	& 4 yds.	Boric
Boric			Picric				

ORDER THROUGH USUAL WHOLESALE.

**ROBERT BAILEY & SON LTD., Marriott Street Mills, STOCKPORT**

Phone: Stockport 2794 and 4165.

London Office: SOUTHAMPTON ROW, W.C.1

Wires: "Undisputed, Stockport."





● Colour showcard, fitted with strut and invisible hanger—actual size 13" x 8 $\frac{1}{2}$ "



# Your silent salesman...

# WATCH IT WORK!

**P**UT up these new Kotex show cards in your window; better still, arrange neat piles of Kotex boxes in your window focusing attention upon the Kotex message . . . watch them work. Display will sell Kotex, the soluble sanitary pad preferred by 7,000,000 women throughout the world. They have proved for themselves that only Kotex can give them the complete protection they should have—Kotex is an hygienic necessity. Kotex is familiar to your lady customers and is kept so, by consistent and effective advertising.

The prominence of this display on your counter and in your windows *and the way it succeeds* will help you make companion sales. Kotex advertising and Kotex co-operation make that better rate of profit too valuable to miss.

Send us your name on a postcard . . . and we will send you without charge one of these compelling and attractive displays immediately.

**KOTEX LIMITED**  
**317 HIGH HOLBORN, W.C.1**  
 Telephone: Holborn 2900

● Advertisements like this are appearing in large spaces in the national press—Link up your store with this advertising by displaying the showcard illustrated above, and increase your sales.



**"SURCO"**

RELIABLE  
**ELASTIC HOSIERY**  
SEAMED & SEAMLESS

For special garments to  
measure we maintain a 24  
hour service.

:: BODY BELTS ::  
TRUSSES :: SUNDRIES

*Write for Catalogue.*

**SURGICAL HOSIERY CO., LTD.**

Russell Street :: NOTTINGHAM

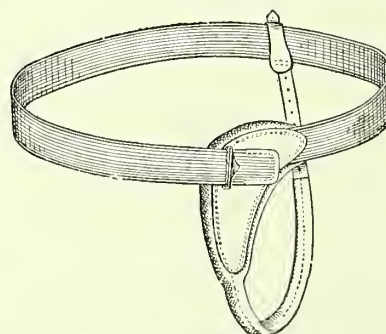
Telephone No.: 75903 Telegrams: SURGICAL, NOTTM.

**THE R. H. HEWARD COMPANY**

Are the Foremost Specialists in

**TRUSSES**

in the United Kingdom.



THE  
R. H. Heward Company  
of TWICKENHAM, MIDDLESEX

'Phone :  
Popesgrove 2094

'Grams :  
Beltruss, Twickenham

**SANITARY TOWELS**

*made  
by*

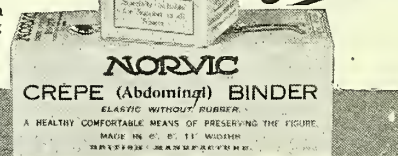
The ORIGINAL and Most Popular  
The "K." All wool in knitted cover,  
very soft.  
The "CELTEX." Made of Cellulose  
for easy disposal.

FROM YOUR WHOLESALE HOUSE, PLEASE

**SOUTHALLS**

*a profitable  
Display* *for  
Window  
or  
Counter*

Showcards from  
all the leading  
wholesalers.

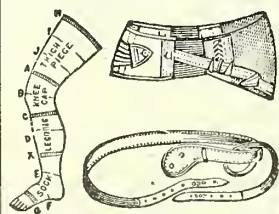
**J. H. HAYWOOD, Ltd. CASTLE GATE NOTTINGHAM**

Tele.: "Appliance Nottingham." Established 1833. Telephone: 40488 Nottm.

**SURGICAL APPLIANCE MANUFACTURERS.**

**SPECIALITIES FOR SUMMER.**

Elastic Hosiery, with or without seams, suitable for Summer wear.  
Trusses, Spring and Elastic, Suspensory Bandages, Abdominal Belts, made from porous materials.  
Elastic and Leather Supports, for Cricket, Tennis, Golf and Boating.  
Goods for Toilet and Seaside trade.  
India Rubber Appliances, Nursing Requisites, Druggists' Sundries, etc.





**Best sellers**

The public is asking for **ZEAL** CLINICAL THERMOMETERS because they are:-  
**GUARANTEED TO STAY ACCURATE CONSISTENTLY ADVERTISED**

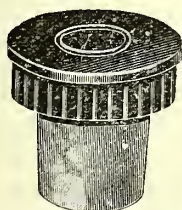
Made by  
**ZEAL**

-the name the public knows.

G. H. ZEAL, LTD.,  
75 & 77, St. John St., London, E.C.1.

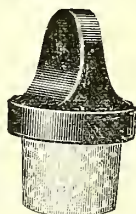


## STOPPERS



200 Varieties  
Any Colour.

A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.



**T. WEBSTER & Co., Ltd.** Telephone: Mountview 0952  
Diamine House, Middle Lane, Hornsey, LONDON, N.8

## THE CHEMIST & DRUGGIST SUPPLEMENT

is an infallible help when you want to buy or sell a business, secure an agency, an assistant or a situation, or **SELL SURPLUS STOCKS.**

The **TARIFF** is printed on the front cover of the **COLOURED SUPPLEMENT.**

Address all inquiries to—

The Publisher: **THE CHEMIST AND DRUGGIST,**  
28 ESSEX STREET, LONDON, W.C.2.

## The FITTING FINISH to a PERFECT BOTTLE

Operating the most up-to-date factory specially laid-out and equipped for the manufacture of metal closures . . . . .

The U.G.B. welcomes enquiries for plain or decorated caps in aluminium or tin . . . .



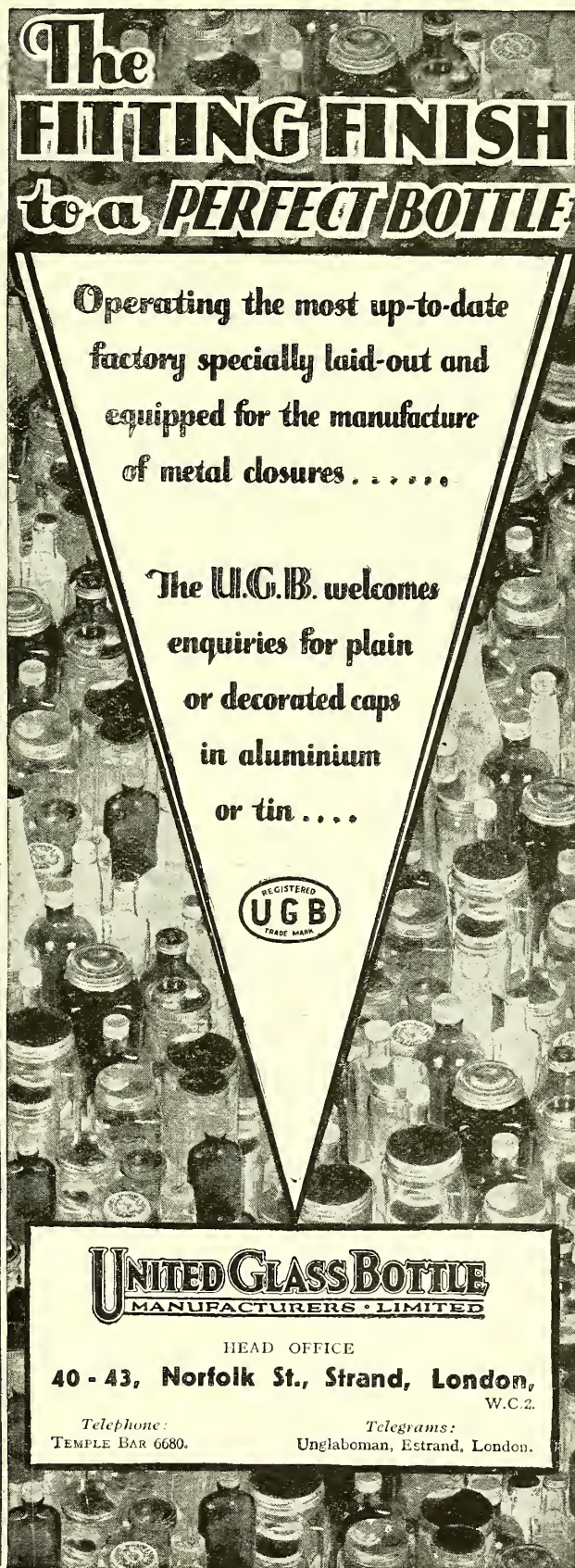
**UNITED GLASS BOTTLE MANUFACTURERS LIMITED**

HEAD OFFICE

**40 - 43, Norfolk St., Strand, London, W.C.2.**

Telephone: TEMPLE BAR 6680.

Telegrams: Unglaboman, Estrand, London.





*Important Lactogen selling points***Flaky curds—extra small fat globules****make LACTOGEN****easy for Baby****to digest**

2/9 per tin P.A.T.A.

Mothers like to know why Lactogen—the dried milk food—is the better Milk for Baby. Here are one or two facts you can tell them with confidence: Lactogen is pure, fresh, full-cream milk, with extra cream and natural milk sugar added, then made, in all important respects, exactly like breast milk. One Lactogen process modifies the casein of the fresh milk so that it forms a fine flaky curd in Baby's stomach, just as does breast milk. Another process breaks up the fat into very tiny globules, even finer than in breast milk. The Lactogen drying process preserves unchanged the valuable mineral content of the fresh milk.

Lactogen may be given as an alternate feed or as Baby's sole food. Even the most delicate Babies thrive on Lactogen from birth.

“**LACTOGEN**”  
REGD. TRADE MARK  
BETTER MILK FOR BABIES

Send to-day for full particulars and terms to Lactogen Bureau (Dept. AZ28), Nestlé and Anglo-Swiss Condensed Milk Co., 6 and 8, Eastcheap, E.C.3.



## MADE WITH THE EXPRESSED JUICES OF LIVING PLANTS

There is all the difference in the world between a LIVING Plant and a DEAD one.

Just as much as between a LIVING Man and a DEAD one.

In the LIVING plant you have not only the medicinal qualities capable of extraction from the DEAD plant, but, in addition, you have its life—ITS VERY SOUL. Its juices are extracted from it at the very time it reaches its highest expression of life, when every part of its being and fibre thrill with liveness. Its radiant beauty of flower, its vigour of green leaf and stem tell out in flower language its possession of an animate existence—a quickening principle that can all be captured and used for the pleasure and health of man.

Chlorophyll and other valuable constituents of the green leaf and stem are all secured in all their healthful qualities and greatest quantities when extracted from the Living Plant.

Repeated tests have proven the marked difference of Tinctures made from the dried herb and the living plant in favour of the latter.

It is said that the effects of Vitamin A have some relation with the green of the living plant, and that "Investigators are seeking to find a direct relation between colour in plants and healthful effects produced by plants." (Schertz.)

Chlorophyll alone is being widely advertised as a health-giving substance suitable for all.

**ALL THESE EXCELLENT THINGS AND QUALITIES ARE  
TO BE FOUND IN**

### **H.B.T. ASEPTIC TOILET AND SHAVING SOAPS**

**THE ONLY SOAPS MADE WITH THE EXPRESSED JUICES  
OF LIVING PLANTS**, making them superior to any Toilet Soap hitherto placed on the market.

The incorporation of these juices has neutralised the usual objectionable taste of soap so that **H.B.T. ASEPTIC TOILET SOAP** may be used as a Dentifrice or mouth-wash with the happiest results. It has a great reputation as **the Soap with no soapy taste**.

We invite your co-operation to make known these Soaps destined to take the first place among Soaps as their unequalled excellence becomes known to the people.

**H.B.T. ASEPTIC TOILET SOAP, 9d. Box of 3 Tablets, 2s. 3d.**  
**H.B.T. ASEPTIC SHAVING SOAP, 1s.**

Terms 33 $\frac{1}{3}$ %.

Of all Wholesale Houses or direct from :

**HUNTER BEATTIE, MONTEITH ROW, GLASGOW, S.E.**

B.C.M./H.B.T.



## EASTERN FOAM

A big advertising campaign offering the new "Lucky Elephant" Beautifier to users of "Eastern Foam" is now in full operation, and will continue in leading national daily papers and feminine periodicals until September.

The offer has been warmly received by the public, and as every applicant for the Beautifier is required to enclose an "Eastern Foam" carton, increased sales are being made among an extended circle of users.



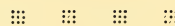
For the Counter



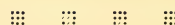
For the Window

Distribution of the Beautifier is made only direct from us. What we ask from the pharmacist is that he should help to popularise the offer by displaying the handsome "Modern Beauty" showcards here illustrated.

The large card is for the window and invites the customer into the shop, where she should find the smaller cut-out showcard (with a supply of coupon leaflets describing the Beautifier) on the counter.



*Write to-day for the new  
"Eastern Foam" show material.*



**THE BRITISH DRUG HOUSES, LTD., LONDON, N.1**



# THE CHEMIST AND DRUGGIST SUPPLEMENT

28 ESSEX ST.  
LONDON, W.C.2

AUGUST 8, 1931

*This Supplement is inserted in every copy of The Chemist & Druggist.*

## THE CHEMIST AND DRUGGIST SUPPLEMENT

### ADVERTISEMENT - TARIFF -

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

**BUSINESSES WANTED** and for **DISPOSAL**, **PREMISES TO LET**, **PREMISES WANTED**, **PARTNERSHIPS**, **GOODS for SALE** and **AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**SITUATIONS OPEN**—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**SITUATIONS WANTED**—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**LEGAL NOTICES, TENDERS, AUCTIONS**, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines=1 inch single column). (Box No., 1/- extra.)  
**MISCELLANEOUS (Wholesalers') Section** for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)  
**EXCHANGE COLUMN** (for Retailers, etc.)—Twopence per word, minimum 2/- (Box No., 1/- extra.)

**THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2**  
Telephone: Central 6565 (8 lines). Telegrams: "Chemicus, Strand, London."

## CLOSING FOR PRESS.

MUST REACH US  
NOT LATER THAN

FIRST POST

ALL ADVERTISEMENTS INTENDED FOR  
INSERTION IN THIS SUPPLEMENT

THURSDAY MORNING.

## ORRIDGE & CO.

56 LUDGATE HILL, E.C.4

ESTABLISHED 1846 Telephone No.: CITY 2283  
May be consulted at their Offices on matters of Sale, Purchase & Valuation

1.—LEWISHAM.—General Retail Business, with N.H.I. Dispensing; returns average £25 weekly, with scope for increase; well-fitted pharmacy, in good main road position; ample living accommodation; rent £80; held on lease; sub-let £15; valuation of stock and fixtures would be accepted, not more than £500 in all.

2.—LONDON, E.—General Retail Business, with Kodak Agency; very old-established; returns over £4,000 at usual prices; double-fronted shop, very well fitted; good working stock; comfortable flat over; moderate rent; long lease; valuation terms entertained.

3.—LONDON, W. (Distant Suburb).—Light Retail Business in residential area; returns between £15 and £20 weekly; double-fronted shop, lock-up; estimated value of stock and fittings £350; 19 years lease; price £500, or near offer.

4.—BANKS OF THE THAMES (Middlesex).—Old-established Retail and Dispensing Business, with Kodak Agency; returns in the neighbourhood of £4,000 per annum, with net profit around £900; double-fronted corner shop; living accommodation; new lease will be granted; rent £200; price £3,500.

5.—LONDON, W. (Central Position).—Old-established Retail Business, with Kodak Agency; returns £35 weekly, plus about 200 N.H.I. scripts monthly; single-fronted lock-up shop; rent £2 weekly inclusive; scope for increased trading under personal supervision; price £1,100, which includes valuable lease.

6.—LONDON, N.—Cash Retail Business, with Kodak and Ucal Agencies; returns £26 weekly, plus 600 N.H.I. prescriptions per month; single-fronted lock-up shop with dispensary behind; price £1,000, or offer entertained.

7.—MIDDLESEX (Few Miles Out).—General Retail and Dispensing Business, with Kodak Agency; returns about £1,500, with scope for increase under more energetic management; double-fronted shop, well fitted and stocked; held on lease. Further details on application.

8.—IMPORTANT SOUTHERN TOWN.—Wholesale Business dealing with Toilet Requisites and Proprietary Articles; established many years; vendor retiring; returns over £7,000 per annum; net profit about £700; convenient premises, the freehold of which may be purchased if required. Full particulars on application.

9.—SUFFOLK COAST (Well-known Health Resort).—Combined Confectionery and Toilet Business; returns last year £2,100; 40ft. frontage; stock and fittings worth £1,100; excellent house, back entrance and garden; part payment entertained; scope for considerable extension by the addition of Drugs, Dispensing and Photographic.

10.—BRISTOL.—Family Retail and Dispensing Business; returns £1,050; good prices; main road (suburban); converted private house; estimated value of stock and fittings between £500 and £600; large house, in good repair; scope for increase under modern supervision; price to be arranged.

11.—NORFOLK.—Small Country Business, producing about £200 net profit per annum; well suited to one about to semi-retire; eight-roomed house, with private entrance, very good garden; new lease; rent £25; no opposition; price about £500; vendor has bought another business.

12.—SALISBURY PLAIN.—Cash Retail Business; returns £100 to £120 monthly, with scope for increase; rent £72 per annum, inclusive; long lease; small flat available; price £650; sound reason for disposal.

13.—SOUTHERN MARKET TOWN.—Old-established Business; Kodak Agency; returns over £2,000; net profit £502; lock-up pharmacy, well fitted and stocked; long lease; moderate rent; valuation terms entertained.

14.—EAST ANGLIA (25 Miles from Coast).—Old-established Business; returns £2,150 per annum, with net profit over £500; compact pharmacy, well fitted and stocked; rent £30 per annum, which includes living accommodation; reasonable price will be accepted; personally inspected by us and well suited to one seeking quiet country life.

## Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

SPECIAL TERMS FOR INCOME TAX VALUATIONS



# BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,  
41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—ELTHAM (Near).—Badly-neglected Pharmacy in growing district; unopposed; large double-fronted corner shop; returns, under elderly manager, about £1,500; rent £70; good self-contained flat over; price for quick sale £1,000, being about the value of stock and fixtures.

2.—CO. DURIAM.—Unopposed Light Country Retail, with Kodak and Rexall Agencies; returns last year £1,178; net profit about £250; large, well-fitted shop; stock worth about £300; house adjoining can be had; price only £450, or near offer.

3.—YORKS (W. Riding).—Light Cash Retail, with Kodak Agency and good Panel; returns about £2,000; net profit £700; audited figures; low rent; good stock; price £1,250, or offer.

4.—NORFOLK.—Old-established Business in busy market town; returns exceed £2,500; good profits; large shop and house; rent £80; on lease; heavily stocked; price £1,500.

5.—LIVERPOOL.—Good-class City Business, returning about £1,500 under manager; plenty of scope; handsomely-fitted pharmacy; long lease; price £850; worth attention.

6.—CUMBERLAND.—Mixed Country Retail, with Wines and Spirits; returns £2,160, increasing; net profit £650; nice house; no opposition; price, with property, £2,585, or offer.

7.—HANTS.—Sound Medium-class Cash Retail, in pleasant growing district; returns £1,357; scope for increase; splendid modern house and large garden and garage; stock and fixtures worth £750; price, with property, £2,350; part can remain on mortgage.

8.—LONDON, W.—Good-class Retail and Dispensing, returning £2,200; gross profits 40 per cent.; double-fronted shop; modern fittings; well stocked; price £1,350, or near offer.

9.—LONDON, S.W.—Sound Drug and Photographic Store; fine chance for qualified; returns over £1,500; net profit £382; audited accounts; low expenses; price £450 or offer.

## STOCKTAKING VALUATIONS.

We are prepared to undertake this work at special low rates and invite early applications; we are now booking dates for August onwards.

Etab. 1870.

Telephone: Terminus 3574.

# THE ASSOCIATION OF MANFG. CHEMISTS, LTD.

BUSINESS AGENCY, TRANSFER AND  
VALUATION DEPARTMENT.

Head Offices—Kimberley House, Holborn Viaduct, London  
E.C.1 (and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Valuer.

'Phone: City 1261-2-3.

## BUSINESSES FOR DISPOSAL.

1.—SURREY.—Chemist's business in residential district, held on lease 7, 14, 20 years, at £98 per annum. Established 4 years. Returns £26 per week. Price asked—Lease and Goodwill, £350. Fixtures and fittings, £600. Stock approximately £400. Further particulars on application.

2.—LONDON, S.E.—Acid, Drug and Chemical Business for quick disposal. Premises held on weekly tenancy at 14s. per week, returns average £25 per week. Stock and fixtures estimated at £500. Offers invited.

Stocktaking Valuations: We undertake this work at special rates and invite early applications.

We are now booking dates for August onwards.

# ERNEST J. GEORGE

CHEMISTS' VALUER AND  
TRANSFER AGENT

Tel.: Earnest, Walsall.

TUDOR HOUSE, WALSALL.

'Phone: Wal. 3774

## Quotations for Stocktaking or for Pricing Chemists' Own Stock Records Supplied on Application

(C1) £10,000 Turnover in Retail Pharmacy.—Owing to contemplated retirement, an old-established city pharmacy with high-class connections and usual distinctive features, may shortly be available for sale by private treaty; the premises occupy a commanding site in one of the leading business thoroughfares, and are held on lease at a rental commensurate with returns and position. The proposition offers unique opportunity for a "live" man, or for a partnership; capital requirements will approximate £8,000-£8,500, and pharmacists personally interested are invited to write in confidence for initial information; reference to Bankers should also be given.

(C2) HARDY COUNTRY.—Good retail and dispensing business in important holiday and touring centre; delightful surroundings; business only opened 11 months, and doing £25-£30 weekly; most attractive lock-up shop, newly fitted by Maws; living accommodation can be arranged nearby; lease at £75 per annum. Stock and Fittings approx. £500; for quick sale, £600 accepted as owner is returning to South Africa for health reasons. This business has been visited and particulars verified.

(C3) LIVERPOOL.—Owing to managerial difficulties and other business interests an opportunity has arisen whereby an exceptionally good branch pharmacy with good living accommodation may be acquired; returns for last financial year exceeded £2,000; rent, £100 on lease; main road situation; imposing premises well stocked and elegantly fitted; capital requirements will be in the region of £1,500, and the business, having been the subject of recent careful investigation, is confidently recommended to prospective purchasers, as constituting a thoroughly sound and profitable investment.

(C4) LINCOLNSHIRE.—Retail and dispensing business showing returns of approximately £2,250 per annum; rent, £110; lease, 12½ years unexpired; further particulars on application.

(C5) HEREFORDSHIRE.—Old-established family and dispensing business; average turnover approximately £3,200 per annum; rent £100 on lease; situated in busy thoroughfare and within easy reach of growing residential district (visited and verified).

(C6) LEICESTERSHIRE.—Pharmacy recently converted from Drug Store, showing steady development; main road situation; entirely unopposed; low overhead expenses; business and property can be purchased for £525 or alternatively premises can be rented for £26 per annum; the proposition has been the subject of investigation, and should constitute a splendid opportunity for a beginner to acquire and develop.

(C7) SOUTH WALES.—Good retail and dispensing business prominently situated in small market town midway between Cardiff and Swansea; returns record steady increase for last three years;

turnover for 1930-31 exceeded £1,800; net profits £400; genuine reasons for disposing; purchase price approx. £1,250.

(C8) SUFFOLK (POPULAR SEASIDE RESORT).—Two businesses, pharmaceutical and high-class confectionery respectively, available for disposal on account of contemplated retirement; modern dwelling house with garden and private entrance; extensive scope for increase, particularly as regards the chemists' business; average total returns for past three years approx. £2,300 per annum; reasonable purchase price; exceptional opportunity in cases where facilities exist for running both concerns jointly.

(C9) NORFOLK.—Old-established family and prescribing business doing approximately £40 weekly; net profits as per accountant's figures for last financial year, £445; good living accommodation. This is a genuine proposition, sound in all respects, and capable of every investigation; the reason for disposal is on account of contemplated retirement.

(C10) SOUTH DEVON.—Good retail and dispensing business showing returns of approximately £1,800 per annum; owner's special proprietaries, for which there is considerable demand locally, form a marked feature, there is also scope for increase generally, under personal proprietorship; the business and property may be acquired on reasonable terms, further particulars of which will be supplied upon application.

(C11) LONDON, EAST.—Retail pharmacy, old-established, showing returns of approximately £90 weekly; premises comprise double fronted shop and warehouse, together with good living accommodation; long lease at moderate rental; purchase price to include lump sum for lease and good will, stock and fixtures at valuation, or by agreement.

(C12) LEEDS (SUBURB).—Undeveloped pharmacy in growing district; modern premises well fitted and of good appearance; present turnover approximately £14-£15 weekly; rent, £40; may be acquired for value of stock and fixtures, less 20 per cent.

(C13) KENT.—Old-established; present returns exceed £2,000 per annum; net profits, £500; rent £85 on long lease; good scope for increase.

(C14) SOUTH-EAST MIDLANDS (BUSY INDUSTRIAL TOWN).—In order to take up a good position outside pharmacy, proprietor must sell immediately old-established business in busy street, turnover last three years, £2,586, £2,642, £2,636; net profits as audited accounts, £470, £482, £488. For a quick sale exceptional terms will be given to a purchaser. Stock and fixtures can be taken at valuation, and a nominal good will agreed. The total income would be approximately £1,500. Good lease with excellent living accommodation. Immediate investigation recommended.



## S. F. CLARK CHEMISTS' VALUER and TRANSFER AGENT

34 Marksbury Av., Richmond, Surrey Phone: Richmond 2210

My Motto: "YOUR SERVICE."

Consult me in Reference to—

STOCKTAKING AND PRICING, SALE OR PURCHASE  
OF BUSINESS, PARTNERSHIPS, COMPANY FLOTATION.  
Accounts Audited. Balance Sheets Certified.

## BUSINESSES FOR DISPOSAL.

**BOURNEMOUTH DISTRICT.**—Sound Chemist's Business, Kodak Agency; average returns £15 per week; lock-up shop; low rent; no rates; lease arranged if desired; price £500 or reasonable offer for quick sale; suit lady or gentleman. 3/11, Office of this Paper.

**BRIGHTON.**—Good Business must be Sold at once owing to death in family; good opportunity for smart business man; will sell for valuation of stock and fixtures and small sum for lease, 21 years. 2/24, Office of this Paper.

**EDINBURGH** (Main Thoroughfare; Bruntsfield District).—Chemist's Business, established over 50 years, for Sale owing to death of proprietor, the late Mr. J. C. Matheson; property, stock, fittings, etc.; sales for last five years average over £1,500. Apply, Raimes, Clark & Co., Ltd., Edinburgh, or Wallace, Begg & Co., W.S., 20 Young Street, Edinburgh.

**KENT COAST.**—Modern Store Pharmacy; best position main street; smartly fitted; double-fronted; Optical connection; all-the-year-round cash business, showing steady increase; established two years; present returns average £40 weekly; well-arranged flat over; long lease; rent £200 per annum; price £2,500; part could remain. "W." 196/28, Office of this Paper.

**LONDON (East).**—Drug Store and Herbal Business in working class district; £7 per week net profit, under management; turnover £648; rent £45; sub-let £39; rates £21; lease 11 years unexpired; Prescribing £5 per week; proper accounts kept; good reason for disposal; established 10 years; herbal knowledge easily acquired; price £400 all, or near offer. Apply "R." 309 London Road, Croydon.

**LONDON, S.E.**—Profitable Light Retail Business, with Kodak Agency and small amount of N.H.I.; returns average over £1,500 per annum; rent £60; part sub-let at 25s. per week; price £875; good opportunity for an energetic beginner. Further particulars on application. 2/32, Office of this Paper.

**LONDON, S.E.**—Large lock-up Chemist's; suit recently qualified admirably; splendid position, main road; returns £800 per annum, and capable of large increase; very low rent; long lease; vendor taking over larger business only reason for disposal; stock and fixtures worth more than price asked for whole concern, viz., £400. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. Tel.: Failsworth 1913.

**LONDON (Near).**—Good-class Family Retail in nice residential locality; good house; long lease; returns average over £1,300 per annum. Full particulars on application. 3/31, Office of this Paper.

**MATLOCK (Near).**—Exclusive offer (death cause of sale); sound, genuine, old-established Country Grocer-Chemist's, with accumulator-charging plant, petrol pump, etc; returns average £4,000 per annum at present; lock-up, with store rooms, but good house, with lease, can be had in close proximity if desired; rent and rates inclusive £1 weekly; unopposed; accept valuation, approximately £900. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. Tel.: Failsworth 1913.

**PRESTON.**—Newly-established Chemist's Business; lock-up shop; main street; low rent and rates; good reason for selling; price asked, stock, fixtures and fittings, about £550. Dunn, 1 Queen's Buildings, Fishergate.

**PORTSMOUTH** (Southsea district).—Old-established General Retail, Dispensing and Photographic Business on main thoroughfare; returns £2,776; net rent £73; held on renewable lease. Further details on application. 1/38, Office of this Paper.

**SOUTH-EAST COAST.**—£1,550; splendid chance for qualified Chemist; good Freehold House, main road, consisting of eight rooms and shop; good fittings and well stocked; profits £5 weekly; no opposition near; would give good mortgage on property for quick sale. Full particulars given. "Rhei." 4/3, Office of this Paper.

**SOUTH WALES.**—Recently acquired Chemist's Business for Sale, a lock-up shop situated in the best street in a market town; long lease; excellent opportunity for Optician; daily bus service from all parts; good reasons for disposal. Full particulars on application. 194/2, Office of this Paper.

**WALLASEY** (Cheshire).—Nice compact modern Chemist's Business; easy rent; lease; excellent living accommodation, with every convenience, in residential district (house can be sub-let at 25s. weekly if not required); returns approximately £850 per annum and capable of considerable increase; price £500, quickly; no triflers entertained. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. Tel.: Failsworth 1913.

**YORKSHIRE, NORTH.**—General Retail Business, with N.H.I. and Photography; house attached; residential district; large town; low rent and rates; good lease; excellent opportunity for capable man; scope for increase; fully stocked; reasonable price for quick sale, £450; good reason for disposal. 1/26, Office of this Paper.

**A MONEY-MAKING** opportunity occurs in the Midlands for a smart young chemist with £375 to take over an up-to-date City Pharmacy on a prominent corner; well stocked and fully fixtured; Kodak Agency. Write for particulars, 3/22, Office of this Paper.

**DRUG** Stores and Library; turnover last year £540; opportunity for young qualified man just starting; good clean stock, about £230, and nicely-fitted shop; rent £65; lease with option; shop and two rooms vacant; upper part let 30s.; price £375, all at. McDonald, 82 East Dulwich Grove, London, S.E.22.

**FOR** Sale, Pharmacy of the late Robert St. C. Adamson, Sligo. Apply 126 Hamilton Road, Liverpool.

**LARGE** Blocks Flats nearing completion close by old-established Chemist's Business; quick sale imperative, owner taking over country business; living accommodation let to weekly tenant; low expenses; renewable lease; easily worked; Kodak Agency, D. & P., N.H.I.; net profit £400 per annum; price £725, or offer; casual inquirers not required; London, N.W.1. 3/4, Office of this Paper.

**OLD-ESTABLISHED** Business in main thoroughfare; in present hands over 40 years; shop and seven rooms over; lease 21 years; rent £275; price £500; stock at valuation; illness only reason for disposal. Apply, Frank Swain, Estate Offices, 170 Notting Hill Gate, W.11.

**TO** Multiple Shop Owners and Others.—Exceptionally good modern Pharmacy, centre of enormous good residential area for Disposal; healthy locality; good living accommodation; splendid opportunity to add Optics. Further particulars to genuine inquirers; bank references. 3/14, Office of this Paper.

**UNIQUE** opportunity for fully qualified Chemist to acquire business on easy terms in new residential district. Apply Fletcher, Roseacre Office, Lytham Road, Blackpool.

**£150** OR near offer for small complete Pharmacy in N.W. London; lock-up shop; rent 15s. weekly; trade increasing; good scope for young man or lady Chemist; well stocked; N.H.I.; fine opening for Photography; quick sale essential owing to illness. P.C.B. 1/18, Office of this Paper.

**£250** EVERYTHING (Near Offer).—Beautifully and expensively fitted modern double-fronted lock-up Shop; main road; adjacent multiples; large yard; rear entrance; post office attached produces £14 month income; inclusive rental £2 weekly; takings £15 week, plus N.H.I.; good working stock; scope for personality with additional stock. "Pharmacist," 28 Inchmery Road, Catford, S.E.6.

**£700.**—THIS sum will purchase stock, fixtures, fittings and goodwill of nice compact Retail Business in West Riding town; annual turnover for past three years, under management, £1,250; rent £40; no agents. 191/13, Office of this Paper.

## BUSINESSES WANTED.

**LONDON** or Home Counties.—Pharmacist, with ready cash available, requires sound, progressive Business; necessary capital at disposal to acquire concern with turnover up to £5,000; must be capable of investigation and returns should not in any case be less than £2,000; quick transaction for suitable proposition. All replies treated in strict confidence. 190/731, Office of this Paper.

**WANTED.** sound Businesses in the London area or the Southern Counties showing a turnover of about £40 per week or over; cash buyers waiting. Also a sound concern in the West End or N.W.1 area with turnover of not less than £5,000 per annum. Apply, Orridge & Co., 56 Ludgate Hill, E.C.4.

**WOLVERHAMPTON DISTRICT.**—Sound Business required, preferably with scope for extension, by pharmacist anxious to move for domestic reasons; turnover should not be less than £1,500, but any good proposition will receive consideration. Replies treated in strict confidence. 190/730, Office of this Paper.



**AGENCIES.**

**ADDITIONAL LINES WANTED.**—Manufacturers desiring good representation and distribution in London area should send particulars and terms to C. Brook & Co., Agents, 84 Avenue Chambers, W.C.1.

**COMMISSION Agent** wanted for London and Home Counties to sell Toilet Rolls, Paper and Sundries; good commission. H. Chapman & Sons, Ltd., Paper Importers, 4 Caxton Road, Wimbledon, S.W.19.

**WANTED,** Agents with good connection among Chemists for good selling sideline for districts: South Coast, East Coast and Home Counties; no salary, commission only. 2/34, Office of this Paper.

**SALES BY AUCTION**

**SALE ROOMS, 5 LITTLE BRITAIN** (Close to G.P.O.), LONDON, E.C.

Removed from Kilburn for Convenience of Sale. **COMPLETE RANGE OF CHEMISTS' SHOP FITTINGS**, comprising 10ft. Drug Run, 12ft. Wall Showcase, 8ft. Wall Showcase, 10ft. Glass-fronted Counter, Dispensing Screen, Silent Salesmen, Mirrors, Glass Shelves, Cash Till, etc.; also Office Furniture, Safes, Typewriters and complete Contents of Flat (furniture of three bedrooms, lounge and dining-room).

**B. NORMAN & SON** will Sell by Auction, at their Sale Rooms, as above, Wednesday next, at One. On View Day Prior. Catalogues on application.

**TO CHEMISTS AND DRUGGISTS.**

A large quantity of **MEDICAL AND SURGICAL GLASSWARE**, including Thermometers, Funnels, Urinals, Eyebaths, Pestles and Mortars, etc., etc., will be Sold by Auction, in lots to suit all buyers, by **GODDARD & SMITH**

in their Auction Sale at 47a Rectory Grove, Clapham, S.W.4, to be held on Tuesday, Wednesday and Thursday, August 11, 12 and 13, at 11 o'clock each day.

Arrangements to view can be made to suit prospective buyers.

Catalogues of Goddard & Smith, 70 Seymour Place, W.1. Padd. 0277-8 and 5805.

**PARTNERSHIPS.**

**PARTNER** required to take charge of good-class Business near London; capable man with good ideas in Window Display, prepared to put full energies into the building up of a developing business; capital necessary, about £500; salary and proportionate share of profits. Apply (in confidence), giving age and experience, to 2/36, Office of this Paper.

**PREMISES TO LET.**

**SPLENDID** opening for Chemist, Fancy Goods, Photographic Agency; Post Office Licence might be obtained; no opposition; corner premises; Winstone district; would sell. Further particulars from "M. S.," 761 Finchley Road, N.W.11.

**APPRENTICES.**

**APPRENTICESHIP** required for youth, aged 18 years; good Dispensing and business training essential. Please reply to P.C.B. 1/5, Office of this Paper.

**APPRENTICESHIP**, two or three years, for youth leaving school; must have passed recognised Preliminary examination; facilities given for day and evening studies. Marshall & Co., 51 Pimlico Road, S.W.1.

**SITUATIONS OPEN.****RETAIL (HOME).**

**BIRMINGHAM.**—Qualified Manager (married) for a good suburban business in growing locality; must be tactful Salesman and good Window-dresser; good prospects; salary and commission; house attached. Give particulars as to previous experience, salary required, and when free to 189/727, Office of this Paper.

**LEICESTER.**—Experienced; qualified Manager wanted, high-class business; thorough knowledge of Cine and ordinary Photography essential. State age, height, experience, salary required, and submit photo; no accommodation. 2/18, Office of this Paper. Previous applicants, who have not received an answer, are thanked, but are unsuitable.

**LONDON, W.**—Unqualified Junior; recent experience in good-class pharmacy essential. State age, experience, salary required. 1/35, Office of this Paper.

**LONDON, S.E.**—Qualified Manager required for small branch; has been neglected, and is capable of extension under good management; salary £3.15s. and commission. Apply, stating age, experience, references, etc., to 3/290, Office of this Paper.

**LONDON, EAST.**—Qualified Manager required for new branch; applicant must be a good Window-dresser, capable and energetic. Apply, stating age, experience, references, and salary required, to 3/29, Office of this Paper.

**LONDON, N.** (near Finsbury Park).—Young, qualified Locum, chiefly for N.H.I. and Counter work, from August 31 to September 12; quick cash business; references, age, and salary. 2/58, Office of this Paper.

**MANCHESTER.**—Manager (qualified), must be good Salesman and good Window-dresser, for progressive industrial business; liberal salary and commission. Full details of age, salary, experience, and when free to 189/726, Office of this Paper.

**MIDLANDS.**—Qualified Manager (smart) required for modern business; experience of Agricultural trade essential; excellent prospects for keen Salesman and good Window-dresser; house attached. Give full particulars of age, previous experience, salary required, and when free to 189/725, Office of this Paper.

**NORTH MIDLANDS.**—Qualified young lady Assistant for Light Retail, Dispensing and Photographic. Give experience, age, height, and enclose photo, and say wages expected. 3/24, Office of this Paper.

**SOUTHAMPTON.**—Assistant wanted immediately, age 25-30, for good-class business; capable Dispenser and Counter. Full particulars and photo if available. E. T. Moxham, Chemist, Portswood Junction, Southampton.

**JUNIOR** or Improver (male) wanted; knowledge of Developing and Printing essential. State age, experience, references, and salary required (indoors); photo if possible. Williams & Smith, 21 West Street, Horsham.

**MANAGER** required for country business with small Optical connection; fair fixed salary and commission with house if required; if qualified in optical an extra commission of 50 per cent. of profits to man with own trial case. Latham & Son, Shirebrook, Derbyshire.

**PROGRESSIVE** position open to young, qualified, energetic, honest and conscientious worker and to take an active interest in old-established Private Dispensing Chemist's; £200 cash required as fidelity guarantee; cash returnable by agreement; good references; fullest particulars first letter, confidential. 3/23, Office of this Paper.

**QUALIFIED** man wanted for August 17, able to take charge, for a few weeks of a small country business near St. Albans. State full particulars, age, experience, salary (must be moderate, indoors or out), references, letters only, to Cannon, Ltd., Chemists, Redbourne, Herts.

**SMART** young lady Chemist wanted at once for Acton. Full particulars of age, experience, salary to 2/15, Office of this Paper.

**UNQUALIFIED** male Counter Assistant required; must be capable, obliging, good Window-dresser and Salesman; sea-side experience essential; age not over 30; commence August 31. Also Junior Assistant required, September 14. State full particulars, salary required. Blacklock & Co., The Square, Bourne-mouth.

**VACANCY** exists immediately for qualified Assistant with N.H.I. and Window-dressing ability; if available immediately give full particulars, age, height, experience, salary and references. Applications not answered in four days respectfully declined. Jenkins, Ltd., Chemists, Uxbridge Road, Hayes, Middlesex.

**WANTED**, immediately, qualified Assistant, used to N.H.I. Dispensing; good Window-dresser, Prescribing and Counter-hand; good reference essential. Apply personally to W. H. King & Co., 114 Fortess Road, Kentish Town, N.W.5.



## WHOLESALE.

**B**UYER of Druggists' Sundries and Patent Medicines wanted; must have had experience and know the markets for sundries. Send fullest particulars of experience (which will be treated strictly confidentially), age, and salary required to Brook, Parker & Co., Ltd., Ashfield, Horton Road, Bradford.

**C**ANVASSER, London district, to sell low-priced Household Remedies; generous commission; must have served regular apprenticeship to chemist. Apply "Manager," 301 Wandsworth Bridge Road, Fulham, S.W.6. Phone: Fulham 3292.

**C**OST Clerk wanted by Wholesale Manufacturing Chemists and Druggists in Manchester district; must have had experience in the costing of Manufactured Drugs and all classes of Pharmaceutical Preparations, Packed Goods, etc. Apply, stating age, salary required, and full particulars of previous experience, 189/710, Office of this Paper.

**E**XCEPTIONAL opportunity occurs for Representative with really first-class Chemist connection throughout London south of Thames, also Scotland, for the sale of a wide range of Surgical Rubberware, including marvellous new patented product superseding all other goods of this nature upon the market to-day; good commission and expenses. 190/729, Office of this Paper.

**E**XPERIENCED Analytical Chemist wanted; Pharmaceutical experience unnecessary. State age, experience, salary required, etc., to 189/728, Office of this Paper.

**R**EPRESENTATIVES wanted in England, Wales and Scotland by firm established over 40 years to offer finest quality Medicated Lozenges, Pastilles, Tablets, Wafers, Pellets, Cachous, etc., amongst Wholesale Chemists and Druggists; very profitable commission basis; state full particulars and ground covered; only men with good connections need apply. 189/711, Office of this Paper.

**S**ENIOR Executive wanted for London Toilet trade. Essentials: Must have occupied executive position and have extensive knowledge of selling to the retail toilet trade, both at home and abroad; must be single, ready to travel; perfect French and English; knowledge of German an advantage. High remuneration and exceptional opportunity. Apply 189/724, Office of this Paper.

**S**URGICAL Instrument and Druggists' Sundries House require Junior Assistant, with some experience, for Showroom, with object of training for Representative. Apply, giving full particulars (in confidence) and state age and salary expected. P.C.B. 1/11, Office of this Paper.

**U**NITED CHEMISTS' ASSOCIATION, LTD., have vacancy for qualified man to take charge of Galenical and Speciality production; profit-sharing and superannuation schemes in operation; good salary to the right man. Apply, with full particulars, to Managing Director, Ucal Works, Cheltenham.

**W**ANTED, a real live Traveller for Lancashire and Yorkshire; must have knowledge of the Drug trade; well-established lines; two other lines carried not objected to; full references required; small salary and expenses and liberal commission. 190/732, Office of this Paper.

## (COLONIAL, INDIAN AND FOREIGN.)

**F**OR THE EAST.—Chemist, qualified Assistant; gentlemanly appearance and address; good Salesman and Dispenser; age 22-24; single; 4 years' agreement; passage paid out and home. Full particulars, with photo if possible and copies of testimonials, to Box R.683, Willings, 133 Moorgate, E.C.2.

## SITUATIONS WANTED.

## RETAIL (HOME).

**A.A.A.A.A.**—REFINED Young Lady (Manchester, 10 miles radius) requires post as Assistant; four years' experience; capable Dispenser, Book-keeper and Window-dresser; smart at Prescribing and Salesmanship; highly recommended by last employer. "A. J. M.," 50 Camp Street, Broughton, Manchester.

**A.A.A.A.**—QUALIFIED; Manager or Senior; 30; single; tall; London experience; thoroughly competent, with excellent references. 1/21, Office of this Paper.

**A.A.A.**—ASSISTANT; unqualified; 27; first-class experience (7 years); active worker; tall; London only; moderate salary; available immediately. Griffiths, Post Office, Talybont, Cardiganshire.

**A.A.A.**—40; unqualified; 5 ft. 8 in.; experienced; abstainer; go anywhere; disengaged Saturday. Alexander, 189 Southampton Street, S.E.5.

**A.**—THOROUGHLY experienced Senior, 25 years' high-class Pharmacy and Dispensing, desires permanency in good-class Retail business, about September; single; tall; distance immaterial. "W. H.," 36 Danes Road, Exeter.

**A** CAPABLE, qualified lady requires permanency as Manageress or First Assistant in good-class pharmacy; all-round experience. 3/32, Office of this Paper.

**A** QUALIFIED Chemist, 7 years' high-class experience, desires post, preferably in Midlands; energetic, trustworthy and capable; at present engaged. "Chemist," 37 St. George's Road, East Cliff, Ramsgate.

**A**N engagement in London about October; unqualified; married; age 30; London and provincial experience; manage or First Assistant. 1/39, Office of this Paper.

**A**S Locum or Assistant; disengaged September 1; male; London and provincial experience; abstainer; moderate salary; South or West preferred. "H. G.," 142 Hill Lane, Southampton.

**A**N M.P.S. desires change, Manager or Senior Assistant; excellent experience; Photography, Dispensing and Counter; 33; married; South London preferred. 2/23, Office of this Paper.

**A**POTHECARIES' Hall; lady; capable Dispenser-Book-keeper; Hospital, Doctor, Chemist experience; permanency, Locum. "Dispenser," 163 Maidstone Road, Rochester.

**A**SSISTANT, 50, tall, unqualified, experienced Dispenser, desires situation; Chemist, Doctor or Institution. T. Littleboy, 44 St. Giles, Norwich.

**A**SSISTANT, smart, 19 (Part I), requires situation; experienced, Dispensing, Counter and Window; Lancashire or Yorkshire preferred. Hartley, 81 Scotland Road, Nelson, Lanes.

**A**SSISTANT; unqualified; 24; seven years' good experience in Dispensing, Window-dressing, Photography and Counter; excellent references; disengaged. "Competent," 2/29, Office of this Paper.

**A**SSISTANT; several years' experience; industrious, courteous and obliging; 7 years last berth; disengaged; unqualified. "Alpha," 3/20, Office of this Paper.

**A**SSISTANT, unqualified, 31, tall, married, seeks responsible position; good Salesman and Window-dresser; excellent references; last post 9 years; disengaged when suited. "Reliable," 2/33, Office of this Paper.

**B**IRMINGHAM.—Qualified, 25, first-class experience, now free, requires permanency. 3/5, Office of this Paper.

**C**APABLE young lady (referred Forensic) desires position as Dispenser; Locums or permanency; London or suburbs preferred; well recommended. 2/37, Office of this Paper.

**C**HEMIST, qualified; Wholesale or Retail; reliable worker; first-class experience; Locums or permanency. Preston, 3 Oldcastle Avenue, Withington, Manchester.

**C**HEMIST, qualified, seeks permanency; West-End and high-class provincial experience; age 27; married; excellent references. 2/35, Office of this Paper.

**C**HEMIST'S Assistant, 24, F.S.M.C., taking J.C.Q.O. October, desires post with Chemist-Optician; excellent experience. H. N. Foote, 43 Rectory Road, Salisbury, Wilts.

**C**OMPETENT and keen young man desires position as Qualified Assistant for nine months or permanency; excellent references. Rae, "Oakroyd," Park Road, West Hartlepool.

**D**ENTISTRY and Pharmaceutical; 25 years' all-round experience; suit Chemist-Dentist (registered Dentist); capable taking charge branch pharmacy and could introduce dentistry; age 40; undeniable testimonials; moderate salary. Full particulars. Harrison, 11 High Street, West Cornforth, Co. Durham.

**E**XPERIENCED, qualified lady desires position: Surrey, Sussex, Kent, Hampshire or suburbs preferred. 3/21, Office of this Paper.

**G**ENERAL Assistant (lady); Toilet and Counter; experienced (no dispensing); excellent references; disengaged. "E. W.," "Craythorne," New Romney, Kent.

**H**AROLD BARKER, qualified, 5 years' excellent experience, seeks situation; first-class references. "Roberdene," Llandudno Road, Penrhyn Bay, Llandudno.

**H**ENRY ALLISON, 93 High Street, Lincoln, recommends his apprentice as Junior; tall; steady; accurate; end of September; educational centre preferred.

**J**UNIOR or Improver, tall, of smart appearance; excellent Counter experience. Please write K. Billeter, 4 Pennine Drive, N.W.2.

**L**OCUM or management; over 30 years' experience; "not registered"; Dispensing, Counter, Stock, Books, Prescriber, and good general Senior; used heavy Panel. "G.," 130 Scott-Ellis Gardens, N.W.8.

**L**OCUM; male; 32; qualified; expert Foreign Dispensing and L. D. & P.; varied experience; free September 1 to 13. 1/40, Office of this Paper.

**L**OCUM; qualified lady; "Square" trained; experienced Hospital and Retail; free August 22; London, suburbs. Phillips, 17 Scutari Road, East Dulwich, S.E.22.

**L**OCUM; qualified; August 10 to August 15; excellent references; London or suburbs. "Chemist," 37 Sackville Gardens, Ilford.

**L**OCUM; experienced; unqualified; free August 17 until September 12; any capacity; anywhere. Rusling, 16 Plumstead Road, Woolwich, S.E.18.

**L**OCUM, qualified, Pharmacist and Optician, keen, capable, has vacant dates after August 15, also in September; F.B.O.A., registered J.C.Q.O. Ellis, c/o Smith, Chemist, Borough Green, Kent.

**L**OCUM; qualified; Lancashire district preferred; free now until September 5. Mullineaux, 2 Daggers Hall Lane, Blackpool.

**L**OCUM or permanency; unqualified; competent; active; reliable; Prescriber; abstainer; single; engaged Derby August 17 to 30; free August 31 onwards. Permanent address, Howard, 30 Pimlico, Ilkeston.



**All Unqualified Assistants, Dispensers and Apprentices**  
should join at once

**THE NATIONAL UNION OF DRUG & CHEMICAL WORKERS**  
(Incorporating the National Association of Chemists' Assistants)

**BENEFITS: Trade Protection—Legal Aid—Unemployment**  
**Benefit—Free Use of Employment Bureau**

Write for particulars—**ARTHUR J. GILLIAN**, Gen. Sec.  
**149 NEWINGTON CAUSEWAY, LONDON, S.E.1**

**LOCUM**; qualified; middle-age; active; well recommended; free now; low remuneration; any distance. H. D. Field, 2 Hill Cottages, Bercynarbar, Devon.

**LOCUM**; qualified; experienced; registered R.P.U.; free August 24 to 29. "Chemist," 236 Stafford Road, Wallington, Surrey.

**LOCUM**, 23 (referred Pharmacy); N.H.I. Dispensing, Photographic; free till September 12; excellent references. A. W. Bridges, Saltergate, Chesterfield.

**LOCUM**; qualified; trustworthy; good varied experience; excellent references; disengaged until August 22 inclusive; Western Counties preferred. 3/15, Office of this Paper.

**LOCUM**—Assistant (referred Pharmacy); any time until October; all-round experience. Leach, 29 Carleton Street, Beechcliffe, Keighley.

**MANAGER OR SENIOR**—M.P.S., 28, wants change in autumn; single; smart; capable; best-class businesses; £80 a week turnover in present position; prompt replies. 189/708, Office of this Paper.

**MANAGERSHIP**. Locum; excellent London, South Coast experience; Dispensing, Photographic, Window-dressing; Optics if necessary; disengaged. "W.", 32 Botha Road, Plaistow.

**MANCHESTER DISTRICT**—Junior Assistant; age 24; reliable Dispenser; has taken charge; free end of August. Martin, 10 Agecroft Road, Pendlebury, near Manchester.

**M.P.S.**, Surrey preferred, though not essential; married; age 26; desires change. 2/9, Office of this Paper.

**M.P.S.**, married, 10 years' all-round experience, desires permanency, preferably with accommodation; excellent references. 2/43, Office of this Paper.

**PART-TIME**; 12 years' City and West-End experience; Dispensing, Stock, Counter; good references. S.E. district. Crowther, 18 Elm Road, Beckenham.

**QUALIFIED** man, 21, requires post as Dispenser; 4 years' Harrogate experience. Kirk, 2 St. Mark's Avenue, Harrogate.

**QUALIFIED**, Scot, age 23, single, desires situation end of September; anything considered; tall; good appearance; high-class experience; excellent references. 1/17, Office of this Paper.

**QUALIFIED**, 42, Manager, married, Scot, seeks position as Manager in England; living accommodation desirable, not essential; disengaged September. Apply 1/5, Office of this Paper.

**QUALIFIED** Chemist, age 24, requires position in London; experienced in all branches; excellent references; free immediately. J. I. Roland, 341 High Street North, London, E.12. 'Phone: Grangewood 2161.

**QUALIFIED**, 22½, keen, reliable, conscientious, desires Locum or permanency; available immediately. Routledge, 33 Mayfield Avenue, Blackpool.

**QUALIFIED**, 24, tall, requires permanency; high-class experience; South of England preferred; free now. Wiseman, 284 Seaside, Eastbourne.

**QUALIFIED** lady, 23, desires position within easy reach N.W. district. "H. D.", 1 Hopfield Avenue, Brondesbury Park, N.W.6.

**QUALIFIED**, 26, desires change from London; Northern Midlands preferred; excellent experience and references. Davies, 456 Katherine Road, E.7.

**QUALIFIED**, single, 24, desires post as Manager or Assistant; permanency preferred; Dispensing, Photographic. J. G. Newton, 77 Lumsden Avenue, Southampton.

**TRUSTWORTHY** Manager, 15 years' varied experience, seeks position of responsibility giving scope for advancement; tactful, energetic, fully acquainted with modern business methods; first-class references; aged 35; married. 195/36, Office of this Paper.

**UNQUALIFIED** male Assistant, 23 (referred Part II), requires position; London, W., S.W., or suburban; good experience in all branches. 276 Nelson Road, Whittou, Twickenham.

**YOUNG** man desires position as Assistant; 7 years' experience; disengaged August 31; South London or Surrey preferred. Ernest Wetherley, 26 Branksome Road, Brixton, S.W.2.

#### WHOLESALE.

**A KEEN**, highly efficient Representative, expert propagandist, desires re-engagement; thoroughly experienced all branches; well known; highest recommendations. 3/26, Office of this Paper.

**RELIABLE** Salesman, 12 years' sound connection, Chemists, Stores, Hairdressers, Yorks, Lancs, Notts and North, open for representation of first-class house; excellent references and sales record; resident Leeds. 3/18, Office of this Paper.

**SMART** Retail Salesman desires berth Representative; Toilets, Pharmaceuticals, Sundries; 28; tall; good appearance. 9 Manor Road, Wallington, Surrey.

#### CLEAR OUT—your Old or Damaged Stock of Photo Goods

Why keep them any longer? Turn them into CASH.

**I GIVE BEST PRICES** for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers, Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

**S. E. HACKETT, 23 July Road, Liverpool**

**UNQUALIFIED** Chemist requires a situation in Laboratory or Works; capable of taking charge; excellent Manufacturing experience with firms of repute; considerable practical knowledge of Galenicals, Chemicals, Tablet Making, and Pharmaceutical Preparations. "A-Z," 2/10, Office of this Paper.

#### COLONIAL, INDIAN AND FOREIGN.

**YOUNG** gentleman desires post abroad; unqualified, but has intimate knowledge of all branches of trade; 3 years' apprenticeship; 3 years with present employer in high-class business; well recommended. 1/30, Office of this Paper.

#### FOR SALE.

**FOR** disposal, f.o.b. Jersey or Guernsey, large quantities Red and Whitewood Sawdust. J. W. Huelin, Ltd., 44 Esplanade Jersey.

#### MISCELLANEOUS.

**A PHARMACY**, fitted with reconditioned 5-ft. Showcase front Counter. 9-ft. Druggisting with mahogany-fronted Drawers, 4-ft. mahogany Wall Showcase, 4-ft. 6-in. mahogany Dispensing Screen, drawers at back, mahogany Perfume Case and Desk, £50 the Set. Many other Sets in stock to suit any shop. Call and make your selection. Upright and Flat Counter Cases, Silent Salesmen, All-glass Counters, Display Stands, Swan-neck and Pear-shape Carboys, Recessed Label Shop Rounds, Electric Signs, Check Tills, etc., cheap. RUDDUCK & CO., 219 Old Street, London, E.C.1.

**CHEMISTS' FITTINGS**.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 336 Old Street, London, E.C.1.

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